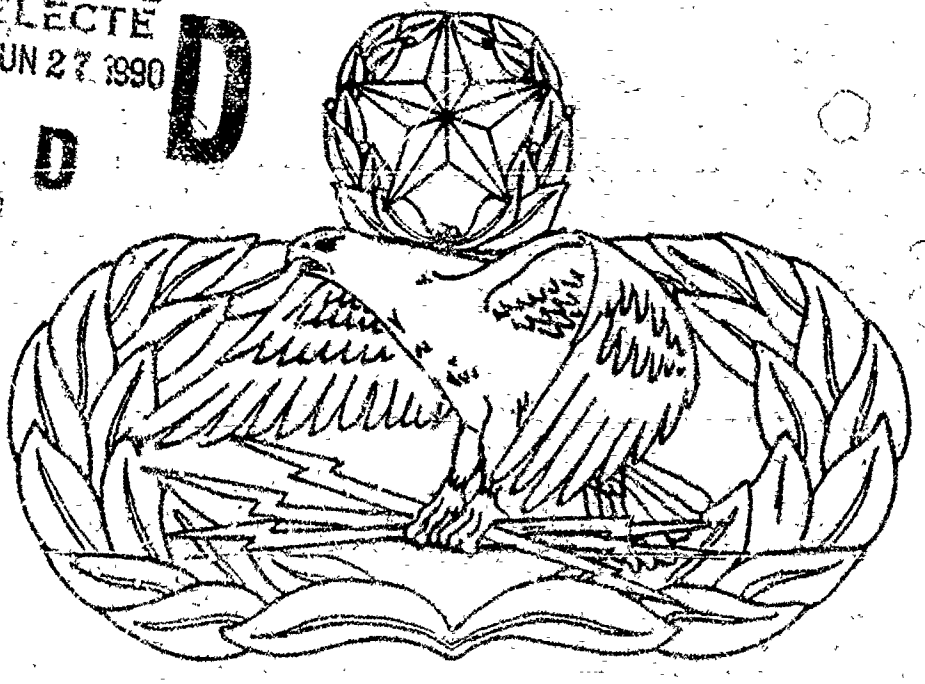
WIDEBAND COMMUNICATIONS EQUIPMENT

GROUND RADIO COMMUNICATION

SPACE COMM SYSTEMS EQUIPMENT



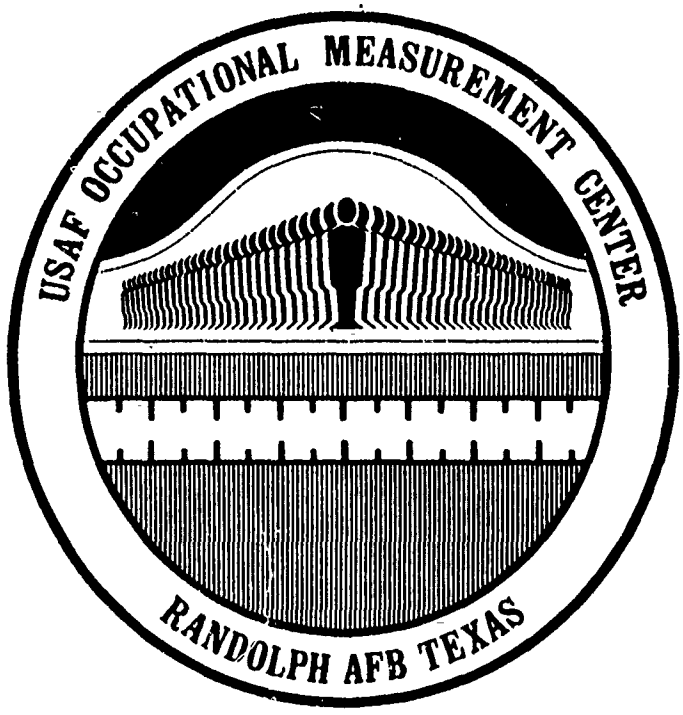
304X0/X4/X6

TRAINING REQUIREMENTS ANALYSIS

MAY 1990

DISTRIBUTION OF TRA FOR 304X0/4/6

ORGANIZATION	TRA REPORT	TRA TASK ANALYSIS APPENDIX A	EFA AND JI ITEMS BY EQUIPMENT APPENDIX B
AFHRL/HOMD	1	1	1
AFMPC/DPMRAD6	1		
AFMPC/DPMRPQ2	2		
CCAF/AYX	1		
Det 3, USAFOMC	1	1	1
DTIC	1	1	1
HQ AFCC/DPATO	1	1	1
HQ AFCC/LGMM	5	6	2
HQ AFCC/TTA	1		
HQ AFSC/SCL	1	1	
HQ AFSPACECOM/LGM	1	1	
HQ AFSPACECOM/MPAEE	1	1	
HQ AFSPACECOM/MPTT	1		
HQ AFSPACECOM/TTA	1		
HQ ATC/DPA	1	1	
HQ ATC/LGM	1	1	
HQ ATC/TTGI	1	1	1
HQ ATC/TTOK	1	1	1
HQ ESC/DPA	1	1	
HQ ESC/DPT	1		
HQ ESC/LGM	1	1	
HQ ESC/TTA	1		
HQ MAC/DPAT	1	1	
HQ MAC/LGM	1	1	
HQ MAC/SCL	1	1	
HQ MAC/TTA	1		
HQ PACAF/DPAT	1		
HQ PACAF/LGM	1	1	
HQ PACAF/SCL	1	1	
HQ PACAF/TTA	1		
HQ SAC/DPAT	1	1	
HQ SAC/TTA	1	1	
HQ TAC/DPAT	1		
HQ TAC/LGM	1	1	
HQ TAC/TTA	1		
HQ USAF/DPPT	1		
HQ USAF/LEYY	1		
HQ USAFE/DPAT	1		
HQ USAFE/LGM	1	1	
HQ USAFE/TTA	1		
NODAC	1		
USAFOMC/OMB	1	1	
3300 TCHTW/TTGX	3	3	3
3300 TCHTW/TTS	1	1	1
3480 TCHTW/TTGX	1	1	1
3785 FLDTW/TTETJ	1	1	1



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PREFACE

The United States Air Force Occupational Measurement Center Training Development Services Division (USAFOMC/OMT) is assigned primary responsibility for developing Training Requirements Analyses (TRAs) for Air Force specialties. TRAs, typically, provide comprehensive data describing specialty training requirements for the 3-, 5-, and 7-skill levels. This TRA, however, focuses on 3-skill level training to facilitate Air Force specialty merger decisions. This is because the impact of a merger on training is most apparent at the 3-skill level. TRA results provide a basis for revision or development of Specialty Training Standards (STSs), initial skill training, on-the-job training (OJT), and Career Development Courses (CDCs). TRAs fulfill most requirements of Steps 1 and 2 of the instructional system development (ISD) model prescribed in AFM 50-2. TRAs assist Air Force officials in making informed, data-based training decisions.

HQ USAF/LEYY requested a comprehensive data-base to support anticipated communications-electronics systems career field training and restructuring decisions. This TRA provides data for the Wideband Communications Equipment, AFSC 304X0; Ground Radio Communications, AFSC 304X4; and Space Communications Systems Equipment/Operator, AFSC 304X6 specialties. The TRA consists of three sections: (a) System Overview--an overall perspective of the Air Force specialty; (b) Task Analysis--detailed training decision data; and (c) Training recommendations--what should be trained, when training should occur and where training should be provided. This TRA has been reviewed by Dr. Linda S. Aslett, Chief of the Operations Branch, USAFOMT/OMT.

Copies of this document are available to Air Force training and management officials. Address requests to USAFOMC/OMT, Randolph AFB, TX 78150-5000.

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EXECUTIVE SUMMARY

Background

This TRA was requested by HQ USAF/LEYY to provide comprehensive data to support anticipated restructuring decisions for the Wideband Communications Equipment, AFSC 304X0; Ground Radio Communications, AFSC 304X4; and Space Communications Systems Equipment Operator, AFSC 304X6 specialties. HQ USAF is considering merging two or all three of these specialties. Continued acquisition of equipment which is maintained using the "line replaceable unit" (LRU) approach will simplify and reduce maintenance requirements. This simplification might facilitate a merger and enhance workforce flexibility.

Procedures

In February 1988, HQ USAF/LEYY convened a training conference at Randolph AFB to define the scope of this training requirements analysis (TRA). Before this conference, training issues and concerns were solicited with the assistance of HQ AFCC/LGM. These issues provided a basis for discussion at the February 1988 workshop and served as guidelines for this TRA. The USAF Job Inventories for the three specialties were used as a starting point to develop a TRA task list. Detailed task, skill, and knowledge data were collected by interviewing subject matter experts (SMEs) at locations recommended by HQ AFCC. USAFOMC/OMY Electronics Principles Inventory (EPI) survey results for each of the three AFSCs were also compared. Results of the occupational survey, the EPI, and the detailed training requirements analysis provided an objective basis for the training recommendations presented in this report.

Results

Two kinds of recommendations resulted from this analysis: general recommendations and specific, task-by-task training recommendations. Task-by-task recommendations are formatted to facilitate STS development; SMEs matched TRA tasks to STS line items. Task-by-task recommendations include suggested resident and on-the-job-training (OJT) for the 3-skill level.

Managers and training developers should study both the general and specific training recommendations BEFORE attending the utilization and training workshop (U&TW). This investment of time is essential to allow informed discussion of the issues and recommendations presented in this TRA. A thorough review of this TRA and other information will enable participants to adequately represent the interests of their organizations.

General recommendations resulting from this analysis include:

1. Transfer AFSC 304X0 BISS functions to AFSC 304X5, Television Equipment.

2. Specialty managers should use this report; the separate comparison of BISS, Wideband, and Television Equipment; other data presented at the U&TW; plus their expertise to decide on a merger and send a clear message either way, merge or not.

3. If specialties are merged, continue to emphasize cross utilization training.

4. Conduct a manpower evaluation to determine the number of personnel required to support operational and training requirements during the transition and after the merger.

5. Increase instruction on basic electronics, use of test equipment, and troubleshooting. Several of these items were identified as repeat course deficiencies by training evalutation reports (TERs).

6. Develop QTPs for all major equipment systems.

7. Centralize responsibility for insuring use of QTPs at the unit level with unit training specialists.

8. Update CDCs.

9. Use the AFET program as much as possible.

Detailed information and supporting rationales for each general recommendation are provided on pages 26-28.

INTRODUCTION

This TRA provides data for two purposes. First, it supports anticipated merger decisions for the three specialties. Second, it provides recommendations for resident course and OJT programs. This report is to be used as a decision tool to help Air Force officials establish training requirements and develop training programs. It supports development of Specialty Training Standards (STSs), Air Force Job Qualifications Standards (AFJQSs), Command Job Qualification Standards (CJQSs), Task Training Tables (TTTs), Work Center Assigned Task Lists, Qualification Training Packages (QTPs), and other training specifications and instructional materials. This TRA can be especially useful during training planning conferences or Utilization and Training Workshops (U&TWs) where significant decisions are made.

TRA Sections

The TRA consists of three sections:

1. System Overview: Describes the mission, manning, resident training courses, training issues and concerns, and future plans which impact the training of AFSCs 304X0/4/6.

2. Training Recommendations: Two kinds of recommendations resulted from this analysis: general recommendations and specific, task-by-task training recommendations. Task-by-task recommendations are formatted to facilitate STS development; SMEs matched TRA tasks to STS line items. Task-by-task recommendations include suggested resident and OJT training for the 3-skill level.

3. Task Analysis: Describes task analysis procedures and provides a summary of interview results. Detailed task analysis data are provided as Appendix A of this report. Appendix B lists electronic fundamentals and Job Inventory statements associated with each piece of equipment in Appendix A.

SYSTEM OVERVIEW

The system overview provides a synopsis of the 304X0, Wideband Communications Equipment; 304X4, Ground Radio Communications; and the 304X6, Space Communications Systems Equipment, specialties. It examines mission, resident training, future plans, issues, and assignment data. It focuses on training issues related to the present and future direction of these specialties. This information provides managers with an overall training perspective.

Mission and Functions

AFSC 304X0, Wideband Communication Equipment personnel, install, repair, modify, maintain, and operate fixed and transportable wideband communications systems. The types of systems they are responsible for include: tropospheric scatter and line-of-sight radios, multiplex, signaling and termination equipment, and intrusion detection systems.

The Wideband Communications Equipment Occupational Survey Report (OSR), AFPT 90-304-413, November 1988, identifies four major functional groups within the specialty and the percent of survey respondents in each group:

1. Supervisory and Management Personnel (26%)

2. Fixed Wideband Communications Personnel (21%)
   a. Tropospheric Scatter Radio (12%)
   b. Microwave Radio (57%)
   c. Voice Frequency Multiplexer Radio (4%)
   d. Radio Teletype Multiplexer (19)
   e. Other (8%)

3. Mobile Wideband Communications Personnel (15%)
   a. Tropospheric Scatter Radio (7%)
   b. Microwave Radio (90%)
   c. Other (2%)

4. Base Intrusion Security System (BISS) Personnel (14%)
   a. Perimeter Security (76%)
   b. Structure Security (7%)
   c. Maintenance Supervisors (6%)
   d. Other (11%)

The OSR also indentifies five minor functional groups:

1. Engineering and Installation (E and I) Personnel (3%)
2. Technical Training Instructors (2%)
3. Teletype Multiplexer Systems Technicians (1%)
4. Close Circuit Television (CCTV) Technicians (1%)
5. Mobility Personnel (1%)

Sixteen percent of the survey respondents could not be grouped.

AFSC 304X4, Ground Radio Communications personnel, install ground radio communication equipment, deploy and activate mobile and transportable ground

radio communications systems, perform preventive maintenance on ground radio communications and related equipment, repair ground radio communications and related equipment, maintain inspection and maintenance records, advise on problems of installing, repairing, overhauling, and modifying ground radio communications and related equipment, and inspect ground radio communicatio..s equipment.

The OSR for Ground Radio, AFPT 90-304-492, August 1986, identifies seven funtional groups:

1. Ground Radio Maintenance Personnel (49%)
   a. Shop Maintenance Repairmen (12%)
   b. Installed Equipment Maintenance Repairmen (10%)
   c. Air Traffic Control Communications Repairmen (15%)
   d. Other (12%)

2. Supervisory Personnel (20%)
3. Maintenance and Job Control Personnel (4%)
4. Technical Training Personnel (4%)
5. Quality Control Personnel (3%)
6. Supply Personnel (2%)
7. Engineering and Installation Personnel (1%)

Seventeen percent of the specialty could not be grouped.

AFSC 304X6, Space Communications Systems Equipment personnel, configure earth terminal equipment, establish and maintain communication links via satellite transponder according to satellite schedules and ephemers data, maintain earth terminal communications systems and configure earth terminal equipment.

Space Communications Systems Equipment personnel or SATCOM maintenance as it is commonly known, has three, 3-skill level "shreds." After attending the common electronics course and SATCOM principles course, personnel attend one of three courses: Defense Satellite Communications Systems (DSCS) at Ft. Gordon, Air Force Satellite Communications (AFSATCOM) at Keesler AFB, Ground Mobile Forces (GMFs) at Keesler AFB. Personnel retain these shreds; 30436A, B, and C, respectively, until they reach the 5-skill level.

The OSR, AFPT 90-304-422, January 1987, identifies seven functional job groups for the 304X6 specialty.

1. DSCS Personnel (35%)
   a. Fixed (17%)
   b. CONUS (10%)
   c. 1st Term (2%)
   d. 1st Term Overseas (6%)

2. GMF Personnel (18%)
   a. GMF Personnel (13%)
   b. GMF Support Personnel (5%)

3. Supervisory/Managment Personnel (13%)
4. AFSATCOM (10%)
5. Crew Directors (5%)

6. Instructors (4%)
7. Job Control Personnel (1%)

Fourteen percent of the specialty could not be grouped.

Personnel

Tables 1 through 4 show the distributions of AFSCs 304X0/4/6 personnel. Table 1 gives the number and percent of personnel for each specialty by MAJCOM. Table 2 shows the number and percent AFSC 30436 personnel by shred. Table 3 shows the number and percent of each specialty stationed at CONUS or overseas locations. Table 4 shows the estimated CONUS and overseas distribution of each specialty in January of 1991. The impact of specialty restructuring on personnel distribution should be considered.

The percentages shown in Tables 1 and 2 include 542 slots (data from USAF/LEYYA) dedicated to base intrusion security system (BISS) maintenance. This function was added to the Wideband specialty to help correct an overseas imbalance. The imbalance was corrected but other problems resulted. Much of the basic skill and knowledge required to maintain BISS equipment is different than that required to maintain Wideband equipment. (See EPI analysis for the BISS, Wideband, and Television specialties). With 542 slots, the BISS function is large enough to warrant a separate specialty or the BISS function could be transferred to another specialty.

TABLE 1

PERSONNEL DISTRIBUTION BY MAJCOM (DECEMBER 89)

AFSC 304X0

MAJCOM	MISC	PACAF	ATC	USAFE	TAC	AFCC	TOTAL
NUMBER	85	68	80	223	265	2185	2906
PERCENT	2.9	2.3	2.8	7.7	9.1	75.2	100.00

AFSC 304X4

MAJCOM	MISC	ELM	MAC	ATC	USAFE	TAC	ESC	AFC	TOTAL
NUMBER	156	72	81	90	291	401	488	3662	5241
PERCENT	3.0	1.4	1.5	1.7	5.6	7.7	9.3	69.9	100.00

AFSC 304X6

MAJCOM	MISC	SPACE	PACAF	ATC	TAC	USAFE	AFCC	TOTAL
NUMBER	59	52	53	63	66	83	760	1136
PERCENT	5.2	4.6	4.7	5.6	5.8	7.3	66.9	100

Almost 70 percent of each specialty belongs to AFCC. Between 13 percent and 17 percent of each specialty belongs to TAC and USAFE. Nearly 10 percent of AFSC 304X4 personnel belong to ESC. No members of AFSCs 304X0 and 304X6 are assigned to ESC. Finally, AFSC 304X4 is by far the largest specialty of the three. It is nearly five times larger than AFSC 304X6 and nearly twice as large as AFSC 304X0.

TABLE 2

DISTRIBUTION OF AFSC 30436 BY SHRED (DECEMBER 89)

SHRED	DSCS A	AFSATCOM B	GMF C	TOTAL 30436	TOTAL 304X6
NUMBER	110	35	44	189	1136
PERCENT OF ALL 304X6	10	3	4	17	100

Note: Data include personnel separated or retired from approximately 1 June, 1989 through 12 March, 1990.

Shreds are assigned according to which of the three courses students attend. Project analysts could not locate data to indicate the percentages of graduates who are actually assigned to jobs requiring the shreds for which they were trained.

TABLE 3

CONUS - OVERSEAS DISTRIBUTION

(February 1990)

AFSC 304X0	CONUS	OVERSEAS	TOTAL
NUMBER	1575	1137	2712
PERCENT	58.1	41.9	100
AFSC 304X4			
NUMBER	2814	1943	4757
PERCENT	59.2	40.8	100
AFSC 304X6			
NUMBER	624	463	1087
PERCENT	57.4	42.6	100
TOTAL			
NUMBER	1575	3543	8556
PERCENT	58.6	41.4	100

*Data from AFMPC/DPMRAD6

Approximately 60 percent of each specialty is assigned to CONUS locations. Restructuring efforts which include removing BISS personnel from the Wideband Communications specialty may alter this percentage.

Personnel losses for AFSCs 304X0 and 304X4 between February 1990 and January 1991 are estimated at 7 percent (611) of the February 1990 total (8556). Estimated losses are 6 percent for AFSC 304X0 and 9 percent for AFSC 304X4. No losses are anticipated for AFSC 304X6.

TABLE 4

ESTIMATED DISTRIBUTION OF AFSC 304X0/4/6 PERSONNEL

(January 1991)

AFSC 304X0	CONUS	OVERSEAS	TOTAL
NUMBER	1597	954	2551
PERCENT	62.6	37.4	100
AFSC 304X4			
NUMBER	2703	1613	4316
PERCENT	62.6	37.4	100
AFSC 304X6			
NUMBER	653	425	1078
PERCENT	60.6	39.4	100
TOTAL			
NUMBER	4953	2992	7945
PERCENT	62.3	37.7	100

*Figures were provided by AFMPC/DPMRAD6

Resident Training and Specialty Requirements

Listed below are the 3-skill level resident courses currently offered to the specialties at Keesler AFB, Mississippi. For a description of course prerequisites and content, consult AFR 50-5, USAF Formal Schools. Course length includes electronics principles training.

COURSE NUMBER		COURSE TITLE	COURSE LENGTH
E3ABR30430	002	Apprentice Wideband Communications Equipment Specialist	27 weeks 1 day
E3ABR30434	000	Apprentice Ground Radio Communications Specialist	23 weeks 2 days
E3AQR30436	001	Satellite Communication Principles	20 weeks 4 days
E3ABR30436B	002	Apprentice Satellite Communications Systems Equipment Specialist (AFSATCOM)	26 weeks 4 days
E3ABR30436C	001	Apprentice Satellite Communications Systems Specialist (GMF)	28 weeks 1 day

The following course is provided by the Army at Ft Gordon, Georgia.

E5ABA30436A	002	Apprentice Satellite Communications Systems Equipment Specialist (DSCS) (SATCOM TML AN/FSC-78V/79 and GSC-39)	8 weeks

Requirements for AFSCs 304X0/4/6 are listed below.

Education:

304X0/4 - completion of high school with courses in physics and mathematics is desirable.

304X6 - completion of high school with courses in algebra, geometry, trigonometry, and physics is desirable.

Training:

304X0 - completion of a basic Wideband Communications Systems Maintenance course is mandatory for award of the semiskilled AFSC.

304X4 - completion of a basic ground radio communications equipment maintenance course is mandatory for award of the semiskilled AFSC. Completion of an advanced Ground Radio Communications Equipment Maintenance course is desirable.

304X6 - completion of a basic Space Communication Systems Equipment course is mandatory for award of the semiskilled AFSC. Completion of a follow-on system specific training course is desirable. Completion of an advanced satellite communications systems equipment course is desirable.

ASVAB Requirements:

304X0/4/6 - A minimum entry score of 67 in electronics is required.

Strength Requirements:

304X0/4 - Must be able to lift at least 60 pounds above head.

304X6 - Must be able to lift at least 40 pounds above head.

Other:

304X0/4/6 - Eligibility for a secret clearance is mandatory. Normal color vision is mandatory for entry into all three AFSC's.

Future Plans

AFSCs 304X0/4/6 will continue replacing their older equipment systems. Most new equipment will move away from individual component repair and continue the trend toward line replaceable units (LRUs) or equipment modules.

Some new equipment designs will incorporate the concept of operator maintenance. In operator maintenance, the role of system operator and maintenance technician is merged. The AN/FSC-78 satellite terminal typifies this concept. Future equipment will exploit this design concept whenever feasible to take advantage of manpower cost savings.

Emerging technologies will dictate learning of new skills and knowledge for AFSC 304X0/4/6 personnel. New BISS equipment requires maintenance of laser equipment, fiber optic systems, and advanced personnel detection and identification systems. Future equipment designs will maximize integration of computer equipment into the system design. Maintenance and use of built-in-test (BIT) and built-in-test-equipment (BITE) will require specialized computer skills and knowledge, for example, the ability to use programming languages for equipment maintenance and operation. Encrypting systems may become subassemblies of equipment items as technology improves electronic protection.

Training Issues

This section reviews and discusses issues which must be considered by AFSC 304X0/4/6 managers. The format for each issue is:

a. Issue: Issues were developed from interviews and written inputs from Air Staff and MAJCOM officials, and from field level supervisors, trainers, and SMEs.

b. Discussion: Discussion involves objective, quantifiable information and subjective information gathered during the course of this TRA. Sources of quoted information are identified. Lengthy inputs are paraphrased.

1. MANNING

a. Issue: Does manning impact the merger decsion?

b. Discussion: Daily operational capability requires a specific minimum number of duty hours to meet assigned missions. Recent and projected personnel losses may reduce manpower levels below this required minimum. HQ AFMPC/DPMRAD6 estimates total manning for AFSCs 304X0/4/6 will decrease from 8556 (February 1990) to 7945 (January 1991). This 611 person loss does not include the early-out loss of fiscal year 1990. Generally, AFSC mergers result in increased OJT time. Will projected manning provide sufficient duty hours to meet both minimum operational requirements and an increase in training requirements?

2. INITIAL SKILL RESIDENT COURSES (3-skill level awarding)

a. Issue: Is a revision of the basic course content necessary?

b. Discussion: Restructing the 304X0/4/6 specialities will probably cause mergers of basic courses. This will require curriculum reviews. Many agencies have suggested how the basic courses should be improved and several items which have merit are listed below for consideration.

1) Emphasize application of fundamental electronic laws with hands-on, problem solving, laboratory exercises in addition to theory. Concentrate less on the equipment training (SETS). Reinforce basic electronics with emphasis on functions instead of types of equipment they will see in the field. (HQ SAC/SCD, AFSC 304X4)

2) Provide more in-depth instruction on test equipment. (2049 CG/LGMT)

3) Increase training time for troubleshooting, reading and using block or schematic diagrams, modulation techniques, transmission lines, antenna and RF propogation theory, using the maintenance data collection system (MDC), and including more soldering practice.

These suggestions are a small sample of the those received from operational commands. They demonstrate there is real interest in improving the initial skill resident courses for AFSCs 304X0/4/6.

These specialties maintain hundreds of pieces of equipment. A merger would make all personnel responsible for all this equipment. Increasing the variety of the equipment which these personnel must maintain increases the importance of stressing basic electronics test equipment and equipment functions. Specific equipment used for training must represent common functions and common systems with emphasis on basic troubleshooting skills applicable to a range of electronic equipment.

HQ ATCs previous two Training Evaluation Reports (TERs) have identified seven specific STS items which fall below the required 80 percent performance level for course graduates. These items, (Table 5) were identified as deficient in the 1985 through 1989 TERs and should receive special attention from course personnel. Four of the seven items refer to test equipment which reinforces the comments above.

TABLE FIVE

TRAINING EVALUATION REPORT REPEAT DEFICIENCY ITEMS

Course	Course Deficiency
E3ABR30430 002	Use Sweep Generators Use Distortion Analyzer
E3ABR30434 000	Troubleshoot HF AM/SSB/ISB Receivers Troubleshoot HF AM/SSB/ISB Transceivers Spectrum Analyzer*
E3AQR30436 001 and E5ABA30436A 002	Align voice multiplexers
E3ABR30436B 001	Identify defective test equipment

* 1985 through 1989 TERs

Another evaluation tool is AF Form 1284, Training Quality Report. An analysis of reports for 1988 and 1989 reveals no significant training deficiencies. However, recent reports suggest graduates of the ground radio school sometimes encounter OJT training problems when assigned to units performing primarily component level repair maintenance.

To summarize, operational commands and their field units want to increase the time spent on basic electronics, test equipment, and troubleshooting and reduce the time spent learning specific equipment (SETS). HQ ATC has identified seven areas of the course which do not adequately address STS line items. Finally, some course graduates experience problems performing component level maintenance. This last point will be important if the Ground Radio specialty is merged because they perform more component level repair according to EPI survey data.

3. BASE INTRUSION SECURITY SYSTEM (BISS)

a. Issue: Where should the responsibility for maintaining BISS lie?

b. Discussion: BISS maintenance is the responsibility of the 304X0 specialty. According to HQ USAF/LEYYA this job currently has 542 personnel performing full or part time duties. In February 1990, HQ AFMPC/DPMRAD6 showed 340 personnel assigned to BISS who hold special experience identifier (SEI) 287. However, only 305 of those BISS slots were authorized. BISS maintenance differs from wideband, ground radio, or satellite communications equipment maintenance because it requires different electronic principles. The work they perform may be more similar to that which the television equipment specialty, AFSC 304X5, performs. Electronic principles required by the BISS function of AFSC 304X0 and the television eqiupment specialty are compared in a separate report available from USAFOMC/OMT. Also, BISS personnel are dissatisfied with the current 3-skill level resident course. The current course does not include instruction on BISS equipment, but a May 1990 course revision will include BISS equipment.

BISS equipment maintenance was placed in the Wideband specialty to reduce the number of short tour assignments and provide greater assignment flexibility for Wideband personnel. Recent equipment improvements have decreased the number of Wideband personnel needed for short tours. Manning figures show Wideband has no overseas imbalance. According to HQ AFMPC/DPMRAD6, BISS manning should remain stable or increase in the forseable future.

February 1990 figures from HQ USAF/LEYYA show that, at most, BISS comprises 20 percent of Wideband personnel resources. If most BISS personnel are stationed in the CONUS, removing them from Wideband would increase Wideband CONUS manning from 40 to 50 percent.

HQ AFMPC/DPMRAD6 estimates AFSC 304X5, television equipment, will have 388 personnel in November 1990. A specialty with less than 500 members is difficult for HQ AFMPC to effectively manage. The on-going series of 304XX restruct decisions offers functional managers at least two options regarding the future of BISS and TV Equipment.

First, allow the situation to remain as is. This action will not require major changes to the training and assignment systems. It has the disadvantage of allowing BISS personnel to continue working on equipment which is out of the mainstream wideband equipment arena. Also, it allows TV equipment specialty manning to remain below a manageable level.

Second, transfer the duties and responsibilities for BISS to TV equipment. This option's disadvantages are it will require major revision of the training and assignment systems. It has the advantages of combining similar equipment maintenance (cameras, monitors, and TV cable) and adding enough personnel to the TV equipment field to make it manageable for HQ AFMPC. Also, this option has the support of HQ AFMPC/DPMRAD6.

Another concern for functional managers is training. Course E3ABR30430 002 will be updated May 1990 to address the training requirements of BISS. Several new commercial BISS systems are being procured and installed by the Air Force. The Wideband specialty should be closely monitored by AFSC 304X0 functional managers to ensure BISS personnel receive the training required to maintain this new equipment.

4. MERGER

a. Issue: Should AFSCs 304X0/4/6 be combined?

b. Discussion: Almost all personnel contacted during the course of this TRA supported a career field merger. Their main difference of opinion is how difficult it will be to accomplish. Typical comments included:

1) No significant problems with the merger. (SAC/SCLMC)

2) Merger will work with a great deal of difficulty. (SAC/SCLMC)

3) Personnel in AFSCs 304X0/4/6 should be consolidated into one specialty. (1957 CG/CRG)

Please note the first two comments. Both persons are from the same organization and agree the merger will work, but differ on how difficult it will be.

The merger issue has existed since about 1978. Many personnel in the 304X0/4/6 specialties perform duties from one or both of the other specialties. Some of this occurs because of cross utilization training. Others, especially those assigned to locations where slots are not authorized for all three specialties, perform duties from another specialty just to keep their communications site functioning. Many career field personnel believe a merger is inevitable, especially since the merger of NAVAIDS, AFSC 304X1 and Weather, AFSC 302X0. The primary concern of technicians and specialists is how a merger will effect them. Career field management personnel take a broader perspective and concern themselves with merger issues and details, but may not consider the effect of this long standing uncertainity on morale. We believe career field morale will be adversely affected if a decision on career field restructing is delayed indefinitely. A decision to merge or not to merge should be well publicized to end this uncertainity.

OJT is a critical part of the AFSC 304X0/4/6 training system. All airman receive their 5-, 7-, and 9-skill levels as a result of OJT. The quality of OJT programs often determines the degree of success of Air Force merger projects. The following areas must receive attention if any merger is to succeed.

5. QUALIFICATION TRAINING PACKAGES (QTPs)

a. Issue: How effective are QTPs?

b. Discussion: QTPs are in the field for many systems, but more are needed. Some QTPs are not being fully utilized by specialists or technicians. During field interviews of SMEs, many did not know a QTP existed

for their equipment. Many others had not used the QTPs they had in their files. There appears to be a need to assign responsibility for maintenance and utilization of QTPs to the unit level. Put some teeth in the OJT program.

QTPs can be used as part of the training plan or as refresher training for assigned personnel. This can be accomplished by getting Training Systems Specialists involved with supervisors in setting up standardized training plans for their workcenters. The unit Training Systems Specialists office would be the ideal place to manage these programs.

If properly managed, the use of QTPs can do much to enhance a training program. They can cut down the hours of supervised training required. QTPs can also help produce better trained specialists and technicians and increase the morale of trainees and trainers.

There were 506 tasks analyzed for this TRA. SMEs indicated only 49 percent (252) of those tasks were covered by QTPs. Also, SMEs felt QTPs adequately covered only 58 percent (146) of those 252 tasks. Though these data are not from a random or represenative sample, they do indicate some degree of dissatisfaction with QTPs. Representative comments include:

1) Qualification Training Packages contain duplication of technical orders. (1957 CS/CRG)

2) More emphasis on timely creation of Qualification Training Packages. (1956 CG/LGG)

3) Various QTPs utilized are outdated. (2049 CG/LGMT)

4) What is needed in a QTP is information that normally can't be found in technical orders or publications. Trainees need to know how to perform a task, but also need to know why it has to be done and what the overall effect will be. (2002 CS/LG)

5) QTPs should provide more detail about the equipment. (2037 CS/LGMT)

6) QTPs are very helpful and can greatly aid in our training programs, but they are not kept up to date or updated in a timely manner. (1903 CS/LGQ)

7) The QTPs should be revised. Most of the AFSC 304X6 QTPs are vague and appear to be only a detailed index to the referenced technical orders, not as an effective learning tool as they could be. (HQ SPCD/LGMK)

8) Technological changes frequently cause the QTPs to be outdated. (HQ RCD/LGM)

6. CAREER DEVELOPMENT COURSES (CDCs)

a. Issue: Do CDCs need to be restructured?

b. Discussion: The discussion below is a summary of headquarters and field unit comments followed by a few quotes of common responses.

1) AFSC 30450. There is far too much information presented in Volume Two of the 30450 CDCs. This volume provides the basic knowledge required to understand newer electronic equipment and is too important to be tested by a one-volume review exercise (VRE). It should be broken into two volumes. (1982 CS/LG)

2) AFSC 30454.

a) This training is adequate but I believe it would be improved by reducing the areas relating to specific equipment and concentrate more on electronic theory. (1957 CG/CRG)

b) The 5-skill level CDCs need to be an extension of basic electronic skills learned in tech school. They need to recap and extend into more detail.

c) Delete the section containing the theory of operation of tubes, we rarely use this in our day-to-day operations. (HQ PCD/LGMG)

d) Add maintenance documentation and supply related tasks to Volume One of the CDC. (HQ PCD/LGMG)

e) This CDC is technically adequate; however, proofreading and editing this CDC can be greatly improved. It takes about four hours to correct all of the mistakes in this CDC, which is a waste of valuable time. This should be distributed with as few mistakes as possible. (1903 CS/LGQ)

3) AFSC 30474.

a) The 7-skill level CDC is good as is. Management is wh. a 7-skill level needs at this point. (1957 CG/CRC)

b) Good, but often written at a lower level than necessary. (1901 CG/LG)

4) AFSC 304X6. The current version of the 304X6 CDCs must be updated, deleting the outdated terminals and adding all the current equipment now in use. (HQ SPCD/LGMK)

The current dates of volumes and supplements are listed below in Table 6.

TABLE 6

DATES OF CDCs AND SUPPLEMENTS BY AFSC

30450			30454			30456		
Volume	Supplement	Date	Volume	Supplement	Date	Volume	Supplement	Date
01		8404	01		8312	01		8303
02		8205		S01	8[illegible]		S01	8608
	S01	8210	02		80_1*		S48	8112
	S02	8406	03		8011*	02		8303
	S34	8112	04		8011*		S34	8112
	S36	8112	05		8011*		S42	7811*
	S38	8112		S01	8011*		S50	8309
	S42	7811*	06		8011*		S51	8312
	S50	8309	07		8010*	03		8303
	S51	8312		S01	8207	04		8303
03		8205					S01	8303
	S01	8205				05		8303
04		8211				06		8303
	S01	8211						
	S02	8312						
05		8406						
	S48	8112						
06		8406						

* Indicates volumes or supplements more than ten years old

AFSC 304X0 and 304X6 CDCs contain study materials dating back to November 1978. The AFSC 304X4 CDC contains study materials dating back to October 1980. Several time consuming changes to these volumes must be posted prior to starting the CDC packages.

7. GENERAL TRA..NING ISSUES

The following comments discuss various areas of follow-on training and represent opinions commonly held by career field personnel.

a. The command hands-on training program (CHOT) appears to have many significant advantages. It allows general equipment training for both qualification and upgrade training within a particular career field, i.e., SATCOM. (HQ RCD/LGM)

b. The OJT program for this career field is not producing top notch technicians. This is caused by the lack of spare equipment to work on, the unavailability of training downtime, and the lack of set criteria for the trainers to follow. (HQ SPCD/LGMK)

c. The AFETS/CFS programs are some of the best training in the career fields. These individuals provide in-depth and necessary training to the maintenance personnel. The training ranges from specific equipment to entire systems, all of which is beneficial to the units. (HQ RCD/LGM)

d. Video training is very good. Would like to see more in other equipment/AFSCs. (2068 CS/LG) (The author is referring to interactive video disk.)

TASK ANALYSIS PROCEDURES

Planning

A training planning conference was held 22-26 February, 1988, at Randolph AFB for AFSCs 302X0 and 304X0/1/4/5/6. Representatives agreed that AFCC/LGM would provide a list of systems to be analyzed and locations to be visited. HQ AFCC functional managers provided a list for AFSC's 304X0/4/6 reflecting anticipated phase-outs of old equipment and minimizing TDY costs. This list of systems and locations, became the TDY plan for the TRA. Conference participants agreed upon a top-down approach which would result in the following levels of detail:

Top Down Task Analysis Approach

- System

-- Subassembly

--- Task

---- Activities, Skill, Knowledge.

To ensure uniform coverage of equipment systems, a standard set of four types of tasks was used.

1. Inspect ... system or subassembly
2. Troubleshoot ... system or subassembly
3. Remove or replace ... system, subassembly, or parts
4. Align or adjust ... system or subassembly

Remove or replace tasks were usually subsumed into troubleshoot tasks unless the remove and replace task contained unique skills or knowledge. Other task statements were occasionally written to describe work behavior not included in the standard tasks above.

Systems and Locations

Task analysis interviews were conducted during the period of February through October 1989. Maintenance supervisors selected specialists for the interviews. Supervisors set up interview schedules by matching the most qualified technicians with the tasks identified for analysis. Support by the major command and base representatives was largely responsible for the success of the analysis. USAFOMC analysts visited the following locations.

Andrews	Hickam	Offutt
Aviano	Kapaun	Onizuka
Bergstrom	Keesler	Peterson
Clark	Kelly	Ramstein
F.E. Warren	Lackland	Randolph
Feldberg	Lindsey	Robbins
Ghedi	Lowry	Scott
Goodfellow	Luke	Sheppard
Goughton	McClellan	Tinker
Hellenikon	Mt Corna	

506 tasks were analyzed on the 90 pieces of equipment listed in Appendix A.

Task Analysis Worksheet (TAW)

Figure 1 is an example of a completed Task Analysis Worksheet. A TAW for each task is provided in Appendix A. Each TAW data element is explained below.

1. TASK #: A unique number is assigned to track each TRA task.

2. TASK: A work action. TRA tasks may subsume closely related USAF Job Inventory statements or statements from other sources, such as Task Training Tables (TTT) or Work Center Assigned Task Lists. Each TRA task is documented on a separate TAW.

3. DUTY CODE: Indicates the last two digits of the AFSC which has the primary responsibility for performing this task.

4. TASK STATUS: Indicates the training recommendation for this task. A "K" indicates knowledge level (familiarization) training is recommended. A "P" is used to recommend follow-on training to the performance level. Training may be provided during the initial, 3-skill level, resident course designated by "3R" or during on-the-job-training designated by "OJT." For example, "3R-KP" is a recommendation for knowledge and performance training during the 3-skill level awarding resident course.

5. TIMES ANALYZED: The number of SMEs providing information about this task.

6. TASK NOTES: The following information was collected for each task.

   a. CONSEQUENCES: What are the consequences of inadequate task performance in terms of:

      1) MISSION: NONE, MINOR, SERIOUS

      2) EQUIPMENT DAMAGE: NONE, DAMAGE

      3) INJURY TO PERSONNEL: NONE, INJURY

   b. HOW OFTEN: How often is the task performed?

   c. OJT TRAINABLE: Could this task be trained during OJT to:

1) Current Technical School Graduates: YES, NO

2) Basic Training Graduates: YES, NO

d. QTP ADEQUATE: YES, NO, NONE, COMMENTS

e. QTP REFERENCE(S): QTP number, N/A

f. TTT: If available, the TTT-recommended skill level for task performance is recorded.

g. SME OPINION: The skill level at which the interviewed technicians recommend the task be performed.

h. Other notes may be entered here, as necessary.

7. EQUIPMENT: What equipment, tools, supplies, etc, are required to perform the task?

8. REFERENCES: What references are used to perform the task?

9. CONDITIONS: What special conditions (environmental, time constraints, etc) effect task performance?

10. CUES: What causes you to perform the task? How do you know the task must be performed?

11. STANDARDS: What criteria would the supervisor use to determine the task has been adequately accomplished?

12. OSR DATA: Lists data from the OSR for the JI statements SMEs matched to the TRA task. TASK is the number of the JI statement. TE is the training emphasis rating for the JI statement. 1JOB is the percentage of personnel in their first job who perform the JI statement. 1ENL is the percentage of personnel in their first enlistment who perform the JI statement. 5SKL is the percentage of 5-skill level personnel who perform the JI statement. 7SKL is the percentage of 7-skill level personnel who perform the JI statement. TD is the task difficulty rating for the JI statement. ATI is the automated training indicator from ATCR 52-22 for the JI statement.

13. ACTIVITIES SKILL KNOWLEDGE: TRA analysts interviewed subject matter experts and reviewed technical references to identify activity, skill, and knowledge behaviors required for task performance. The following definitions were used in this TRA.

a. Activities are "sets of related behaviors" which have a "common purpose." Activities summarize detailed procedural steps, such as those specified in Technical Orders.

b. Skills and knowledge are prerequisite abilities which support task performance but are not themselves part of the steps for accomplishing the task. In this TRA, troubleshoot or fault isolation tasks are classified as knowledge because the essential component of this behavior is the mental ability or decision process used to determine the problem.

FIGURE 1

TASK ANALYSIS WORKSHEET EXAMPLE

TASK #: 00110
ALIGN/ADJUST AN/FCC-19 AND AN/FCC-25 MULTIPLEXER
DUTY CODE: X0
TASK STATUS: 3R-KP
TIMES ANALYZED: 2

TASK NOTES:

CONSEQUENCES: MINOR, DAMAGE, NONE
HOW OFTEN: QUARTERLY
OJT TRAINABLE: YES, NO (TASK REQUIRES ELECTRONIC FUNDAMENTALS)
QTP ADEQUATE: NO (DOES NOT COVER ANCILLARY TEST EQUIPMENT USED)
TNG REFERENCE(S): QTP 304X0-30F
TTT: 5
SME OPINION: 3

EQUIPMENT:

TRANSMISSION TEST SET, TELETYPE TEST SET, DIGITAL MULTIMETER
FREQUENCY COUNTER, OSCILLOSCOPE, COMMON HANDTOOLS

REFERENCES:

T.O. 31W2-2FCC19-1

CONDITIONS CUES:

COND: POWER ON, PATCH OFF USER
CUE: PMI FINDING, COMPONENT REPLACEMENT, USER COMPLAINT

STANDARDS:

IAW REFERENCES

OSR DATA:

		TASK	TE	1JOB	1ENL	5SKL	7SKL	TD	ATI
304X0	Q	0959	3.02	15.0	15.0	11.0	8.0	5.46	11.0

ACTIVITIES SKILL KNOWLEDGE:

A ALIGN/ADJUST BIAS AND OUTPUT SIGNAL
A CALIBRATE BITE EQUIPMENT
A ALIGN/ADJUST CENTER CONVERTER FREQUENCY AND BIAS
A ALIGN/ADJUST KEYER OUTPUT
K APPLY THEORY OF OPERATION FOR ANALOG-TO-DIGITAL/
DIGITAL-TO-ANALOG CONVERTERS

OSR JOB INVENTORY TASK STATEMENTS:

0 Q0959 A ADJUST ANALOG-TO-DIGITAL CONVERTER COMPONENTS

Analysis of Commonality

In this section areas of commonality among the three communications specialties are presented. We use two methods to compare these specialties. First, responses by each specialty to the Electronics Principles Inventory (EPI) were compared. A separate EPI analysis is available from USAFOMC/OMTO which compares the BISS function within AFSC 304X0 to the television equipment specialty, AFSC 304X5. Additionally, test equipment used by the BISS and televsion equipment functions are compared.

Electronics Principles Inventory (EPI). The EPI lists many common electronics skill and knowledge statements. USAFOMC/OMY has administered this inventory to many of the electronics specialties and produced several reports analyzing the results. Those reports can be obtained through USAFOMC/OMY. A complete analysis of electronic principles used by AFSCs 304X0/4/6 is available from USAFOMC/OMT. This analysis reports both the similarities and dissimilarities between specialties and the electronics principles training requirements for these specialties.

Briefly, the AFSCs 304X0/4/6 EPI Analysis indicates all three specialties are similar in their use of electronics principles. Wideband and Space Communications are the most similar. Ground Radio and Space Communications show the greatest differences. As a measure of similarity of use of electronic principles, Table 7 contains EPI item recommendation matches based upon ATCR 52-22 training guidelines.

TABLE 7

EPI ITEM RECOMMENDATION MATCHES BETWEEN SPECIALTIES

	AFSC PAIRS		
	30450-30454	30450-30456	30454-30456
RECOMMENDATION MATCHES	495	539	434
TOTAL ITEMS	712	712	712
MATCHES TO TOTAL EPI QUESTIONS	70%	76%	61%

Excluding other considerations, Wideband and Space Communications are good candidates to be merged first because they are the most similar in their use of electronics principles.

Ground Radio and Space Communications personnel show the greatest difference in electronics principles use in Amplifier Circuits, Power Supplies, Reactive Circuits, and Waveshaping/Generating Circuits. Ground Radio and Wideband personnel show large differences in electronics principles use in Amplifier Circuits and Transmission/Reception Circuits, Devices, and Systems.

Wideband and Space Communications personnel show large differences in only section "D" of the EPI, Power Supplies.

Overall, Ground Radio shows the greatest percentage of personnel using EPI items. Thus, Ground Radio might be described as the most extensive users of electronics principles and skills. Space Communications shows just the opposite. Of the three specialties, they were the least extensive users of electronics principles. However, all three AFSCs were quite similar in the percentages of people using most types of test equipment. Ground Radio is the only specialty with a high percentage of personnel working with microphones and speakers, most types of amplifier circuits, and AM/SSB equipment. Also, Wideband is the only specialty which works with television systems.

Finally, the EPI is only one of several possible indicators of similarities and differences between specialties. It does show how specialties compare in most basic areas of electronics principles. It does not survey the entire job or all a person does. Management should consider all parts of the job before restructuring any specialty. Also, managers should inspect closely the specific areas of large differences between specialties. These areas may hold the key to the success or failure of any action taken based on these results.

The Electronics Fundamentals/Applications (EFA) list is a condensed form of the EPI. An EFA checklist was usd to identify some of the skills and knowledge associated with each specific TRA task. SMEs matched EFA statements to tasks. USAFOMC analysts then grouped the statements by system. Appendix B lists equipment and their associated EFA statements.

Statements from the USAF Job Inventories for the three specialties were also matched to TRA tasks. SMEs considered statements from all three inventories and selected the statements they considered related to or included in each TRA task. Not only does this identify units of work associated with a TRA task, it also provides another way to measure the similarity and dissimilarity of the three specialties. Some degree of similarity is indicated if SMEs matched statements from the AFSC 304X4/6 Job Inventories to a TRA task describing work on an AFSC 304X0 piece of equipment. However, matching Job Inventory statements across inventories presents risks. There are problems of context and semantics. Words may not have the same meaning across specialties. Although Job Inventory task statements may appear dissimilar, the skills and knowledge required to perform those tasks may be similar. So, the match of Job Inventory statements to equipment is not as important as the overall findings of similarity and dissimilarity. Appendix B lists equipment and their associated Job Inventory statements.

One method of addressing the similarity of the BISS function and the television equipment specialty is to compare test equipment. Below is a list of equipment common to both the BISS tasks listed in Appendix A and tasks from the 304X5 Training Requirements Analysis published in February of 1989.

Equipment Common to BISS and AFSC 304X5

Attenuator	Logic Probe
Bar Dot Generator	Monitor
Decade Box	Ohm Meter
Degausser	Oscilloscope
Digital Voltmeter	Power Supply
Distortion Analyzer	Signal Generator
Dummy Load	Soldering Kit
Extension Board	Synchronizer Generator
Frequency Counter	Vacuum Tube Voltmeter
Isolation Transformer	

There are also many equipment items which are used by only one group. For example, BISS uses microwave test equipment and television personnel use a variety of film and tape equipment.

TRAINING RECOMMENDATIONS

Purpose

This section of ıe TRA provides general and specific (task-by-task) training recommendations. These recommendations provide decision makers with the bottom-line results of this TRA. Recommendations are based upon analysis of issues presented in the Systems Overview, occupational survey data, Electronics Principles Inventory survey data, TRA task analysis data, and other information obtained during this study.

General Training Recommendations

1. BISS

   Recommendation. Transfer the AFSC 304X0 BISS function to AFSC 304X5, Television Equipment.

   Rationale. A comparison of electronic principles indicates the BISS function is more similar to AFSC 304X5 than to AFSC 304X0. In many cases, BISS and Television maintenance require similar test equipment. See BISS issue in Systems Overview portion of this report.

2. MERGER

   Recommendation. From a training perspective, these specialties should be merged.

   Rationale. These specialties are similar in their use of electronics principles. Wideband, Ground Radio, and Space Commuications personnel have been sharing duties because AFCC has emphasized cross utilization training. Nearly all SMEs interviewed for this TRA believed these specialties could be merged. However, training is not the only issue to consider when deciding on a merger. Managers should consider other factors beyond the scope of a TRA. See Merger issue in Systems Overview portion of this report.

3. CROSS UTILIZATION TRAINING

   Recommendation. If specialties are merged, continue to emphasize cross utilization training.

   Rationale. Cross utilization training has been effective for many units for several years. Many field personnel feel the merger would succeed because cross utilization training has succeeded. See Merger issue in Systems Overview portion of this report.

4. MANNING

   Recommendation. If merger is an outcome, conduct a manpower evaluation to determine the number of personnel required to support operational and training requirements during the transition and after the merger.

Rationale. The initial stage of a merger will require increased OJT. This, combined with a projected 7 percent workforce reduction by January 1991 and an unknown reduction due to "early outs," may result in insufficient duty hours to meet requirements. See Manning issue in System Overview portion of this report.

5. BASIC ELECTRONICS COURSES

Recommendation. Increase instruction on basic electronics, use of test equipment, and troubleshooting. Several of these items were identified as repeat course deficiencies by recent training evalutation reports (TERs).

Rationale. These specialities maintain several hundred systems. Increasing the variety of the systems which these personnel must maintain increases the importance of stressing basic electronics, test equipment, and equipment functions instead of specific pieces of equipment. Specific equipment must obviously be used for this training. The equipment chosen should represent common functions and common systems and the emphasis should be on basic troubleshooting skills applicable across a range of electronic equipment.

Most personnel contacted during the project held this view. This recommendation becomes more important if specialties are merged because it would not be feasible to provide resident training for each specific system. See Basic Electronics Courses issue in System Overview portion of this report.

6. QTPs

Recommendation. 1872 SCHS develop QTPs for all major equipment.

Rationale. QTPs are a viable approach to OJT. They formalize and standardize hands-on OJT. See QTP issue in System Overview portion of this report.

7. QTPs

Recommendation. Centralize responsibility for insuring use of QTPs at the unit level with the unit training specialist.

Rationale. Without centralized management at the unit level, QTPs will continue to be under utilized and will remain difficult to properly maintain. See QTP issue in System Overview portion of this report.

8. CDCs

Recommendation. 3300 TCHTW update CDCs.

Rationale. Many of the CDC volumes and supplements are more than ten years old and require revision as well as correction of errors. Most specific equipment material can be covered in QTPs. This would allow CDCs to address material which concerns the entire specialty, such as electronic principles in 5-skill level CDCs and maintenance management

training in 7-skill level CDCs. See CDC issue in System Overview portion of this report.

9. AFETs PROGRAM

Recommendation. Use the AFET program as much as possible.

Rationale. Field personnel indicated AFET provides some of the most valuable training available. See Miscellaneous Training issue in System Overview portion of this report.

Specific Training Recommendations

Specific skill level and training setting recommendations (OJT or resident course) are formatted to assist managers and training developers in revising STSs. This TRA was requested to provide data as a basis for AFSC merger decisions. Therefore, specific training recommendations focus on the 3-skill level.

The following procedures were used to make specific training recommendations. Subject matter experts matched USAF Job Inventory task statements to specific TRA tasks. They also selected the Job Inventory task most representative of each TRA task. Training recommendations for specfic TRA tasks are based upon occupational survey data and descriptive task analysis data. Occupational survey data for these representative tasks were used to make preliminary training recommendations in accordance with the decision logic in ATCR 52-22. These recommendations were then modified to reflect additional information collected during TRA task analysis interviews. A full report of the procedures used to make specific training recommendations is available from the USAF Occupational Measurement Center Training Development Services Division. An example is shown in Table 8 and an explanation follows.

TABLE 8

SAMPLE SPECIFIC TRAINING RECOMMENDATIONS

	SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
	13. EQUIPMENT MAINTENANCE			
	A. CHECK MINIMUM PERFORMANCE STANDARDS ON THE FOLLOWING EQUIPMENT			
STS ITEMS	(1) TRANSMITTERS			
	13.A.(1)(A) HF AM/SSB/ISB	-		REVIEW
JI TASKS	J.I. H0383 A OPERATIONALLY CHECK HF EQUIPMENT (TRA 02740)	KP		
	J.I. H0391 A OPERATIONALLY CHECK SIDE BAND EQUIPMENT (TRA 03800)	KP		
TRA TASKS	TRA 03800 INSPECT 618T-1 RECEIVER-TRANSMITTER RADIO (J.I. H0391)	KP		
	TRA 02740 INSPECT AN/TSC-107 (HF INDEPENDENT SIDEBAND TRANSMITTER (J.I. H0383)	KP		
STS ITEM	13.A.(1)(B) VHF AM	2a		NONE
JI TASKS	J.I. J0525 A BENCH CHECK UHF TRANSMITTER (TRA 01870)	KP		
	J.I. J0529 A BENCH CHECK VHF TRANSMITTER (TRA 01870)	KP		
TRA TASKS	TRA 01870 INSPECT AN/GRT-21 VHF AND AN/GRT-22 UHF TRANSMITTERS (J.I. J0525 AND J0529)	KP		

Table 8 shows a portion of the AFSC 304X4 STS. Job Inventory statements and TRA tasks are displayed below each corresponding STS line item. Current training proficiency codes are shown to the right of each STS line item. Training recommendations are shown to the right of each TRA task. The recommended skill level at which training should be provided is designated with a "K," "P," or both. The "K" indicates knowledge level (familiarization) training is recommended. A "P" is used to recommend follow-on training to the performance level. Follow-on training to the performance level may occur in a resident course or OJT. Note: Knowledge-level training DOES NOT imply that hands-on training should not be provided; a "K" indicates the trainee is not fully qualified.

STS recommendations are shown to the right of STS line items in the STS ACTION column. "REVIEW" indicates a recommendation to review the proficiency code for that line item. "REVIEW" is recommended when there is a discrepancy between the current proficiency code and the training recommendations for JI statements and TRA tasks following the line item. "ADD" indicates a recommendation to add the line item to the STS. "NONE" indicates agreement between the current proficiency code and the training recommendations for JI statements and TRA tasks following the line item. For those STS line items with a "REVIEW" recommendation, U&TW attendees should compare the proficiency codes to the recommendations for the JI statements and TRA tasks below that item. Discrepancies between recommendations should be discussed at the U&TW where attendees can decide whether to make the recommended changes.

Managers and training developers should study both the general and specific training recommendations BEFORE attending the utilization and training workshop (U&TW). This investment of time by attendees will allow informed

discussion of the issues and recommendations presented in this training requirements analysis (TRA). Those who attend the U&TW prepared will be able to adequately represent the interests of their organizations.

SPECIFIC TRAINING RECOMMENDATIONS

STS FOR AFSC 304X0

SPECIALTY TRAINING STANDARD (STS) AFSC 304X0	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
1. SECURITY			
A. COMMUNICATIONS SECURITY (COMSEC)			
(1) SECURITY CLASSIFICATIONS	-		
(2) PREVENT SECURITY VIOLATIONS	-		
(3) USE MAJCOM/SOA EEFIS	-		
(4) OBSERVE SECURITY PRECAUTIONS INVOLVED IN COMMUNICATIONS	-		
(5) FACILITY PHYSICAL SECURITY MEASURES	-		
B. OPERATIONS SECURITY (OPSEC)			
(1) BACKGROUND AND HISTORY OF OPSEC	-		
(2) DEFINITION OF OPSEC	-		
(3) RELATIONSHIP OF OPSEC TO OTHER SECURITY PROGRAMS SUCH AS COMSEC, INFORMATION SECURITY, AND PHYSICAL SECURITY	-		
(4) COMMON OPSEC VULNERABILITIES	-		
(5) OPSEC SIGNIFICANCE OF UNCLASSIFIED DATA AND PROCEDURES	-		
(6) SPECIFIC OPSEC VULNERABILITIES OF AFSC 304X0	A		
C. TEMPEST	-		
2. CAREER LADDER PROGRESSION			
A. PROGESSION IN CAREER LADDER 304X0	A		
B. DUTIES OF AFSC'S 30430/50/70	A		
3. AF OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM			
A. HAZARDS OF AFSC 304X0	B		
B. AFOSH STANDARDS APPLICABLE TO AFSC 304X0	-		
C. PERFORM SAFETY INSPECTION	-		
D. COMPLY WITH SAFETY PRECAUTIONS FOR THE PROTECTION OF PERSONNEL AND EQUIPMENT	3b		
4. SUPERVISION AND TRAINING			
A. SUPERVISION			
(1) PARTICIPATE IN USAF GRADUATE EVALUATION PROGRAM	-		
(2) ORIENT NEWLY ASSIGNED PERSONNEL AND MAKE DUTY ASSIGNMENTS	-		
(3) INITIATE CORRESPONDENCE AND LOCAL POLICIE CONCERNING MAINTENANCE ACTIVITIES	-		
(4) COORDINATE WORK WITH OTHER PERSONNEL AND MAINTENANCE ACTIVITIES	-		
(5) PLAN			
(A) WORK ASSIGNMENTS	-		
(B) WORK PRIORITIES	-		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X0	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
(6) SCHEDULE			
(A) WORK ASSIGNMENTS	-		
(B) WORK PRIORITIES	-		
(7) ASSIGN MAINTENANCE AND WORK	-		
(8) ANALYZE MAINTENANCE AND INSPECTION REPORT AND CHARTS	-		
(9) ESTABLISH PERFORMANCE STANDARDS	-		
(10) EVALUATE PERSONNEL PERFORMANCE			
(A) COMPLETE APPROPRIATE RATING FORMS	-		
(B) COUNSEL PERSONNEL AND RESOLVE INDIVIDUAL PROBLEMS	-		
B. TRAINING			
(1) PLAN, CONDUCT, AND SUPERVISE OJT	-		
(2) COUNSEL TRAINEES ON TRAINING PROGRESS	-		
(3) EVALUATE EFFECTIVENESS OF TRAINING PROGRAMS	-		
(4) MAINTAIN TRAINING RECORDS	-		
(5) CONDUCT PERSONNEL TRAINING USING QTP'S IF APPLICABLE	-		
5. COMMUNICATIONS-ELECTRONICS (C-E) EQUIPMENT MAINTENANCE MANAGEMENT			
A. FUNCTIONS AND RESPONSIBILITES OF THE DEPUTY COMMANDER FOR MAINTENANCE (DCM)/CHIEF OF MAINTENANCE (C-E)	-		
B. BASIC ORGANIZATION AND RESPONSIBILITIES OF THE DCM STAFF	-		
6. C-E EQUIPMENT MAINTENANCE SYSTEM INSPECTION REPORTING, AND FORMS			
A. MAINTENANCE SYSTEM INSPECTING AND REPORTING	-		
B. MAINTENANCE DATA COLLECTION SYSTEM	A		
C. USE MAINTENANCE DATA COLLECTION FORMS	A		
D. CORE AUTOMATED MAINTENANCE SYSTEM (CAMS)	-		
7. TECHNICAL ORDERS AND AIR FORCE PUBLICATIONS			
A. AIR FORCE PUBLICATIONS SYSTEM	-		
B. TECHNICAL ORDER SYSTEM	A		
C. MAINTAIN FILES OF AIR FORCE TECHNICAL ORDERS AND OTHER PUBLICATIONS	-		
D. LOCATE REQUIRED MAINTENANCE INFORMATION IN APPLICABLE TECHNICAL ORDERS AND MANUALS	2b		
E. USE TECHNICAL PUBLICATIONS WHEN PERFORMING			
(1) MAINTENANCE TASKS	2b		
(2) INSPECTION TASKS	2b		
F. REPORT TECHNICAL ORDER DEFICIENCIES	-		
8. C-E EQUIPMENT LOGISTICS MANAGEMENT			
A. SUPPLY SYSTEM	-		
B. SUPPLY PROCEDURES			
(1) REQUISISTION MATERIAL AND PARTS	-		
(2) TURN IN MATERIAL AND PARTS	-		
(3) MAINTAIN BENCH STOCK AND FORWARD SUPPLY POINT	-		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X0	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
C. UTILIZE AND MAINTAIN SUPPLY DOCUMENTATION	-		
D. MAINTAIN EQUIPMENT ACCOUNTABILITY RECORDS	-		
E. MAINTAIN PMEL ACCOUNT	-		
F. REPORT MATERIAL DEFICIENCIES	-		
9. PREVENTIVE MAINTENANCE ROUTINES			
A. PURPOSE OF PREVENTIVE MAINTENANCE PROGRAM	A		
B. TYPES OF PREVENTIVE MAINTENANCE ROUTINES	A		
C. CORROSION PREVENTION/CONTROL OF C-E EQUIPMENT	A		
10. ELECTRONIC PRINCIPLES APPLICABLE TO TASKS LISTED IN THIS STS			
11. TEST EQUIPMENT			
A. FUNCTIONS OF TEST EQUIPMENT	A		
B. APPLICATIONS OF TEST EQUIPMENT	A		
C. POWER MEASUREMENT CALCULATION	B		
D. PERFORM EQUIPMENT MAINTENANCE USING THE FOLLOWING TEST EQUIPMENT/DEVICES			
(1) MULTIMETER	2b		
(2) FREQUENCY SELECTIVE VOLTMETER	2b		
(3) SIGNAL GENERATOR	2b		
(4) OSCILLOSCOPE	2b		
(5) POWER METER	2b		
(6) FREQUENCY COUNTER	2b		
(7) SPECTRUM ANALYZER	2b		
(8) SWEEP GENERATOR	2b		
(9) ATTENUATORS (FIXED AND VARIABLE)	2b		
(10) NOISE TEST SET	2b		
(11) TIME DOMAIN REFLECTOMETER	-		
(12) BIT ERROR RATE TEST SET	2b/X		
(13) WAVEGUIDE COUPLERS AND ADAPTERS	-		
(14) FIBER OPTICS TEST SET	-		
(15) DIGITAL LOGIC PROBE	-		
(16) DISTORTION ANALYZER	-		
(17) TELEPHONE TEST SET	2b		
E. PERFORM USER MAINTENANCE OF TEST EQUIPMENT	b		
F. IDENTIFY DEFECTIVE TEST EQUIPMENT	b		
12. COMMON WIDEBAND EQUIPMENT PRINCIPLES			
A. WIDEBAND REPEATERS	B		
B. ANCILLARY STATION EQUIPMENT			
(1) DISTRIBUTION FRAMES	A		
(2) STATION BATTERY	A		
12.B.(3) MASTER STATION COMPUTER SYSTEM			ADD
J.I. Q1081 A PERFORM PMI ON AUTOMATIC FAULT SENSING AND SWITCHING NETWORKS (TRA 00010)		KP	
J.I. G0155 A OBSERVE STATUS DISPLAY PANELS TO DETERMINE EQUIPMENT OPERATION (SIGNAL QUALITY) (TRA 00020)	KP		
J.I. G0156 A OBSERVE TEST EQUIPMENT, SUCH AS SCOPES AND SIGNAL ANALYZERS, TO DETERMINE EQUIPMENT OPERATION (TRA 00020)	KP		
J.I. G0184 A PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO REDUNDANT EQUIPMENT (TRA 00030)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X0	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 00010 INSPECT AMS-1X00 AUTOMATIC MASTER STATION COMPUTER SYSTEM (J.I. Q1081)		KP	
TRA 00020 MONITOR EQUIPMENT FAULT ALARMS WITH AMS-1X100 AUTOMATIC MASTER STATION (J.I. G0155 AND G0156)	KP		
TRA 00030 REMOTELY SWITCH EQUIPMENT WITH AMS-1X00 AUTOMATIC MASTER STATION (J.I. G0184)	K	P	
12.B.(4) DEHYDRATER			ADD
J.I. J0286 A INSPECT WAVEGUIDES (TRA 01290)		KP	
J.I. J0292 K ISOLATE MALFUNCTIONS IN DEHYDRATORS (TRA 01300)		KP	
TRA 01290 INSPECT WD15 DEHYDRATOR (J.I. J0286)		KP	
TRA 01300 TROUBLESHOOT WD15 DEHYDRATOR (J.I. J0292)		KP	
12.B.(5) FREQUENCY STANDARD GROUP			ADD
J.I. G0169 A PERFORM FREQUENCY RESPONSE TESTS (TRA 00610)		KP	
J.I. I0229 A REMOVE ELECTROMECHANICAL COMPONENTS USING METHODS OTHER THAN SOLDERING (TRA 00620)	K	P	
J.I. Q0960 A ADJUST ATOMIC FREQUENCY STANDARD COMPONENTS (TRA 00630 AND 00640)		KP	
J.I. Q0981 A ADJUST GENERAL PURPOSE POWER SUPPLY COMPONENTS (TRA 00650)		KP	
TRA 00610 INSPECT THE AN/FYA-74 ATOMIC BEAM FREQUENCY STANDARD (J.I. G0169)		KP	
TRA 00620 TROUBLESHOOT AN/FYA-74 ATOMIC BEAM FREQUENCY STANDARD GROUP (J.I. I0229)	K	P	
TRA 00630 ALIGN AND ADJUST THE AN/FYA-74 ATOMIC BEAM FREQUENCY STANDARD GROUP COMPONENTS (J.I. Q0960)		KP	
TRA 00640 ALIGN AND ADJUST THE AN/FYA-74 ATOMIC BEAM FREQUENCY STANDARD GROUP DIGITAL CLOCK PULSE GENERATOR (J.I. Q0960)		KP	
TRA 00650 ALIGN AND ADJUST THE AN/FYA-74 ATOMIC BEAM FREQUENCY STANDARD GROUP POWER SUPPLIES (J.I. Q0981)		KP	
C. FIBER OPTICS	A		
D. ANTENNAS			
(1) SYSTEMS	A		
(2) COMPONENTS	A		
E. DATA MODEMS	A		
13. INSTALLATION PRACTICES			
A. INSTALL WIDEBAND COMMUNICATIONS EQUIPMENT	-		
B. WIRE WIDEBAND COMMUNICATIONS	-		
C. INTERCONNECT WIDEBAND COMMUNICATIONS EQUIPMENT	-		
D. INSPECT			
(1) INSTALLATION OF WIDEBAND COMMUNICATIONS EQUIPMENT	-		
(2) INTERCONNECTION OF WIDEBAND COMMUNICATIONS EQUIPMENT	-		
E. INSTALL INTRUSION DETECTION SYSTEMS	-		
F. UPDATE FACILITY RECORDS	-		
14. FIXED DIGITAL SYSTEMS/EQUIPMENT			

SPECIALTY TRAINING STANDARD (STS) AFSC 304X0	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
A. PRINCIPLES, CAPABILITIES, AND LIMITATIONS			
(1) LOW SPEED MULTIPLEXER	B		
(2) VOICE FREQUENCY MULTIPLEXER (FIRST LEVEL)	B		
(3) HIGH SPEED (SECOND LEVEL) MULTIPLEXER	B		
(4) DIGITAL RADIO	B		
B. PERFORM EQUIPMENT MAINTENANCE ROUTINES			
14.B.(1) LOW SPEED MULTIPLEXER	2b/X		REVIEW
J.I. M0660 A PERFORM PMI ON TIME DIVISION MULTIPLEXER ASSOCIATED INTERFACE EQUIPMENT (TRA 00150)		KP	
J.I. G0181 A PERFORM PREOPERATIONAL CHECKS OF EQUIPMENT (TRA 00180)	KP		
J.I. G0156 A OBSERVE TEST EQUIPMENT, SUCH AS SCOPES AND SIGNAL ANALYZERS, TO DETERMINE EQUIPMENT OPERATION (TRA 00180)	KP		
J.I. 00802 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON DC TO AUDIO FSK MODEMS (TRA 01160)		KP	
TRA 00150 INSPECT AN/FCC-98(V) MULTIPLEXER SET (J.I. M0660)		KP	
TRA 00180 PERFORM AN/FCC-98(V) MODULE LOOP TEST (J.I. G0181 AND G0156)	KP		
TRA 01160 INSPECT THE MD-701 DIGITAL DATA MODEM (J.I. 00802)		KP	
14.B.(2) VOICE FREQUENCY MULTIPLEXER (FIRST LEVEL)	2b/X		REVIEW
J.I. M0661 A PERFORM PMI ON TIME DIVISION MONITORS (TRA 00040)		KP	
TRA 00040 INSPECT DMX-2003 MULTIPLEXER/DEMULTIPLEXER (J.I. M0661)		KP	
14.B.(3) HIGH SPEED (SECOND LEVEL) MULTIPLEXER	2b/X		REVIEW
J.I. M0660 A PERFORM PMI ON TIME DIVISION MULTIPLEXER ASSOCIATED INTERFACE EQUIPMENT (TRA 00120)	KP		
TRA 00120 INSPECT THE AN/FCC-100 MULTIPLEXER (J.I. M0660)	KP		
14.B.(4) DIGITAL RADIO	2b/X		REVIEW
J.I. L0516 A ADJUST POWER MONITORS (TRA 00450)	KP		
J.I. K0418 A PERFORM PMI ON DIGITAL RECEIVERS (TRA 00450)	KP		
J.I. G0155 A OBSERVE STATUS DISPLAY PANELS TO DETERMINE EQUIPMENT OPERATION (SIGNAL QUALITY) (TRA 00450)	KP		
J.I. K0418 A PERFORM PMI ON DIGITAL RECEIVERS (TRA 01190)	KP		
J.I. K0420 A PERFORM PMI ON FM RECEIVERS (TRA 01190)	KP		
J.I. L0567 A PERFORM PMI ON FM VHF TRANSMITTERS (TRA 01190)	KP		
J.I. G0187 A PERFORM TRANSHISSION LEVEL TESTS (TRA 01200)	KP		
J.I. Q0963 A ADJUST AUTOMATIC FAULT SENSING AND SWITCHING NETWORK COMPONENTS (TRA 01210)		KP	
TRA 00450 INSPECT AN/FRC-171(V)10 DIGITAL RADIO SET (J.I. L0516, K0418 AND G0155)	KP		
TRA 01190 INSPECT MDR-8-5N QUAD DIVERSITY MICROWAVE DIGITAL RADIO (J.I. L0567, K0418 AND K0420)	KP		
TRA 01200 OPERATIONALLY CHECK MDR-8-5N QUAD DIVERSITY MICROWAVE DIGITAL RADIO (J.I. G0187)	KP		
TRA 01210 CALIBRATE MDR-8-5N TRANSMIT SECTION ALARM DISPLAY (J.I. Q0963)		KP	
14.C. TROUBLESHOOTING AND REPAIR			
(1) TROUBLESHOOT SYSTEMS TO ISOLATE MALFUNCTIONS	2b/X		REVIEW

SPECIALTY TRAINING STANDARD (STS) AFSC 304X0	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
14.C.(2) TROUBLESHOOT EQUIPMENT TO ISOLATE MALFUNCTIONS	2b/X		REVIEW
J.I. L0535 K ISOLATE MALFUNCTIONS IN DIGITAL TRANSMITTERS (TRA 00460)	KP		
J.I. L0573 A REMOVE DIGITAL TRANSMITTER MODULAR CIRCUIT CARDS (TRA 00460)	KP		
J.I. O0794 K ISOLATE MALFUNCTIONS IN DIGITAL MODEMS (TRA 01180)		KP	
J.I. I0218 K ISOLATE MALFUNCTIONS IN SYSTEMS TO SPECIFIC EQUIPMENT (TRA 01230)	KP		
TRA 00460 TROUBLESHOOT AN/FRC-171(V)10 DIGITAL RADIO SET (J.I. L0535 AND L0573)	KP		
TRA 01180 TROUBLESHOOT THE MD-701 DIGITAL DATA MODEM (J.I. O0794)		KP	
TRA 01230 TROUBLESHOOT MDR-8-5N TO MODULE OR COMPONENT LEVEL (J.I. I0218)	KP		
14.C.(3) REMOVE LINE REPLACEABLE UNITS/COMPONENTS	B/X		REVIEW
J.I.0I0236 A REMOVE ELECTRONIC SUBASSEMBLIES USING METHODS OTHER THAN SOLDERING (TRA 00050, 00140 AND 01240)	KP		
J.I.0M0646 K ISOLATE MALFUNCTIONS IN SOLID-STATE TIME DIVISION MULTIPLEXERS (TRA 00190)	KP		
J.I. I0236 A REMOVE ELECTRONIC SUBASSEMBLIES USING METHODS OTHER THAN SOLDERING (TRA 01240)	KP		
TRA 00050 TROUBLESHOOT DMX-2003 MULTIPLEXER/DEMULTIPLEXER (J.I.I0236)	KP		
TRA 00140 TROUBLESHOOT THE AN/FCC-100 MULTIPLEXER (J.I. I0236)	KP		
TRA 00190 TROUBLESHOOT AN/FCC-98(V) MULTIPLEXER SET (J.I. M0646)	KP		
TRA 01240 REMOVE AND REPLACE MDR-8-5N MODULES OF COMPONENTS (J.I. I0236)	KP		
14.C.(4) REPLACE LINE REPLACEABLE UNITS/COMPONENTS	B/X		REVIEW
J.I. I0236 A REMOVE ELECTRONIC SUBASSEMBLIES USING METHODS OTHER THAN SOLDERING (TRA 01240)	KP		
TRA 01240 REMOVE AND REPLACE MDR-8-5N MODULES OR COMPONENTS (J.I. I0236)	KP		
14.C.(5) ALIGN AND ADJUST			ADD
J.I. G0184 A PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO REDUNDANT EQUIPMENT(TRA 00060)	K	P	
J.I. G0155 A OBSERVE STATUS DISPLAY PANELS TO DETERMINE EQUIPMENT (SIGNAL QUALITY) (TRA 00130)	K	P	
J.I. M0721 A REPLACE TWO WIRE/FOUR WIRE CONVERSION AND TERMINATION CIRCUITS (TRA 00130)	K	P	
J.I. I0251 A REPLACE ELECTRONIC SUBASSEMBLIES USING METHODS OTHER THAN SOLDERING (TRA 00130)	K	P	
J.I. T1391 A ADJUST AUDIO AMPLIFIERS (TRA 00160)		KP	
J.I. M0630 A ALIGN TIME DIVISION MULTIPLEXERS (TRA 00170)	KP		
J.I. L0518 A ADJUST SUPER HIGH FREQUENCY (SHF) POWER AMPLIFIER COMPONENTS (TRA 00470)		KP	
J.I. O0786 A ADJUST DIGITAL MODEMS (TRA 00470)		KP	
J.I. Q0981 A ADJUST GENERAL PURPOSE POWER SUPPLY COMPONENTS (TRA 01170)		KP	
J.I. Q0970 A ADJUST BUILT-IN TEST EQUIPMENT (BITE) COMPONENTS (TRA 01220)		KP	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X0	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 00060 MANUALLY SWITCH DMX-2003 MULTIPLEXER/DEMULTIPLEXER (J.I. G0184)	K	P	
TRA 00130 CONFIGURE AN/FCC-100 MULTIPLEXER (J.I. M0721, I0251, G0155)	K	P	
TRA 00160 ADJUST AN/FCC-98(V) VOICE FREQUENCY (VF) MULTIPLEXER SET VOICE FREQUENCY (VF) MODULE CHANNEL LEVELS (J.I. T1391)		KP	
TRA 00170 ADJUST AN/FCC-98(V) DATA TIMING GROUP COMMON VOICE FREQUENCY GAIN LEVEL (J.I. M0630)	KP		
TRA 00470 ALIGN OR ADJUST AN/FCC-171(V)10 DIGITAL RADIO SET (J.I. L0518, 00786)		KP	
TRA 01170 ALIGN/ADJUST MD-701 DIGITAL DATA MODEM (J.I. Q0981)		KP	
TRA 01220 ADJUST MDR-8-5N DOWNCONVERTER AND ALARM RECEIVER VOLTAGE LEVELS (J.I. Q0970)		KP	
15. FIXED ANALOG SYSTEMS/EQUIPMENT			
A. PRINCIPLES, CABABILITIES, AND LIMITATIONS			
(1) TELEGRAPH MULTIPLEXER	B		
(2) SIGNALING AND TERMINATION EQUIPMENT	B		
(3) VOICE FREQUENCY MULTIPLEXER	B		
(4) LINE OF SIGHT RADIO	B		
(5) TROPOSPHERIC SCATTER RADIO SET	B		
B. PERFORM EQUIPMENT MAINTNENANCE ROUTINES			
15.B.(1) TELEGRAPH MULTIPLEXER	2b		NONE
J.I. N0747 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON TELETYPE MULTIPLEXER ASSOCIATED INTERFACE EQUIPMENT (TRA 00070)		KP	
J.I. Q1054 K ISOLATE MALFUNCTIONS IN TRANSCEIVERS (TRA 00200)		KP	
J.I. S1389 A VISUALLY INSPECT INSTALLATION AND INTERCONNECTIONS OF INSTALLED EQUIPMENT (TRA 01140)		KP	
TRA 00070 INSPECT AN/FCC-19 AND AN/FCC-25 MULTIPLEXER (J.I. N0747)		KP	
TRA 00200 INSPECT AN/FRA-90 TRANSCEIVER (J.I. Q1054)		KP	
TRA 01140 INSPECT MD-674(P)/G LOW SPEED MODEM (J.I. S1389)		KP	
15.B.(2) SIGNALING AND TERMINATION EQUIPMENT	2b		NONE
J.I. S1389 A VISUALLY INSPECT INSTALLATION AND INTERCONNECTIONS OF OF INSTALLED EQUIPMENT (TRA 00480 AND 00530)		KP	
TRA 00480 INSPECT THE AN/FTA-20 TELEPHONE TERMINAL (J.I. S1389)		KP	
TRA 00530 INSPECT THE AN/FTA-28 TELEPHONE TERMINAL (J.I. S1389)		KP	
15.B.(3) VOICE FREQUENCY MULTIPLEXER	2b		NONE
J.I. L0565 A PERFORM PMI ON FM SHF TRANSMITTERS (TRA 00230)	KP		
J.I. S1389 A VISUALLY INSPECT INSTALLATION AND INTERSONNECTIONS OF INSTALLLED EQUIPMENT (TRA 00380 AND 00660)		KP	
J.I. Q1081 A PERFORM PMI ONAUTOMATIC FAULT SENSING AND SWITCHING (TRA 00420)		KP	
J.I. G0158 A PERFORM ALTERNATE CIRCUIT ROUTING AT PATCH AND TEST FACILITIES (TRA 01310)		KP	
TRA 00230 INSPECT AN/FRA-90 TRANSCEIVER POWER SUPPLY (J.I. L0565)	KP		
TRA 00380 INSPECT AN/FRC-27 RADIO SET (J.I. S1389)		KP	
TRA 00420 INSPECT AN/FRC-162(V) MICROWAVE RADIO (J.I. Q1081)		KP	
TRA 00660 INSPECT AN/GGC-38 MULTIPLEXER (J.I. S1389)		KP	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X0	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 01310 INSPECT THE 46A3 MULTIPLEXER (J.I. G0158)		KP	
15.B.(4) LINE OF SIGHT RADIO	2b		NONE
J.I. K0420 A PERFORM PMI ON FM RECEIVERS (TRA 00260 AND 00320)	KP		
J.I. G0178 A PERFORM PMI ON AMPLIFIERS (TRA 00320)	KP		
J.I. L0565 A PERFORM PMI ON FM SHF TRSANSMITTERS (TRA 00320)	KP		
J.I. K0418 A PERFORM PMI ON DIGITAL RECEIVERS (TRA 00700)	KP		
J.I. K0420 A PERFORM PMI OON FM RECEIVERS (TRA 00730)	K	P	
TRA 00260 INSPECT AN/FRC-96 RADIO SET GROUP (J.I. K0420)	KP		
TRA 00320 INSPECT AN/FRC-97 RADIO SET GROUP (J.I. K0420, L0565, AND G0178)	KP		
TRA 00700 INSPECT AN/GRC-203 RML RECEIVER (J.I. K0418)	KP		
TRA 00730 INSPECT AN/GRC-203 RML SEPARATOR (J.I. K0420)	K	P	
(5) TROPOSPHERIC SCATTER RADIO SET	-		
C. TROUBLESHOOTING AND REPAIR			
15.C.(1) TROUBLESHOOT SYSTEMS TO ISOLATE MALFUNCTIONS	2b		NONE
J.I. J0290 K ISOLATE MALFUNCTIONS IN ANTENNA TRANSMISSION LINES OR RELATED COMPONENTS, SUCH AS FILTERS (TRA 00440)	KP		
J.I. Q1008 K ISOLATE AMLFUNCTIONS TO ANALOG-TO-DIGITAL CONVERTERS (TRA 00080)		KP	
J.I. N0738 K ISOLATE MALFUNCTIONS IN FREQUENCY SHIFT KEYERS (TRA 00090 AND 00680)	KP		
J.I. N0737 K ISOLATE MALFUNCTIONS IN FREQUENCY SHIFT CONVERTERS (TRA 00100)	KP		
J.I. Q1054 K ISOLATE MALFUNCTIONS IN TRANSCEIVERS (TRA 00210)		KP	
J.I. N0725 A ADJUST DIRECT CURRENT (DC) POWER SUPPLY COMPONENTS (TRA 00240)		KP	
J.I. N0746 K ISOLATE MALFUNCTIONS IN DC POWER SUPPLY LINE ISOLATION ASSEMBLIES (TRA 00270, 00670, 01340)		KP	
J.I. L0550 K ISOLATE MALFUNCTIONS IN FM SOLID-STATE SHF TRANSMITTERS (TRA 00280)	KP		
J.I. I0230 A REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING METHODS (TRA 00300)	KP		
J.I. L0558 K ISOLATE MALFUNCTIONS IN SHF POWER AMPLIFIERS (TRA 00330)	KP		
J.I. K0390 K ISOLATE MALFUNCTIONS IN SOLID-STATE FM RECEIVERS (TRA 00340, 00360, AND 00740)	KP		
J.I. K0374 A ALIGN FM RECEIVERS (TRA 00350)	KP		
J.I. K0477 A REPAIR MALFUNCTIONS IN SOLID-STATE FM RECEIVERS (TRA 00350 AND 00360)	KP		
J.I. I0229 A REMOVE ELECTROMECHANICAL COMPONENTS USING METHODS OTHER THAN SOLDERING (TRA 00350)	KP		
J.I. K0406 K ISOLATE MALFUNCTIONS IN TUBE TYPE FM RECEIVERS (TRA 00360)	KP		
J.I. Q1024 K ISOLATE MALFUNCTIONS IN AUTOMATIC SOLID-STATE TRANSFER (TRA 00390)		KP	
J.I. I0230 A REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING METHODS (TRA 00400)	KP		
J.I. Q1035 K ISOLATE MALFUNCTIONS IN SOLID-STATE AUDIO AMPLIFIERS (TRA 00500, 00540, 00580, AND 01150)	KP		
J.I. Q1045 K ISOLATE MALFUNCTIONS IN SOLID-STATE AFC (TRA 00510)	KP		
J.I. K0388 K ISOLATE MALFUNCTIONS IN SOLID-STATE AGC CIRCUITS (TRA 00510)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X0	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
J.I. M0638 K ISOLATE MALFUNCTIONS IN SOLID-STATE IN-BAND SIGNALING AND CONTROL CIRCUITS (TRA 00510)	KP		
J.I. K0375 K ISOLATE MALFUNCTIONS IN DIGITAL RECEIVERS (TRA 00710)		KP	
J.I. M0635 K ISOLATE MALFUNCTIONS IN SOLID-STATE FREQUENCY DIVISION MULTIPLEXERS (TRA 01320)		KP	
TRA 00080 TROUBLESHOOT AN/FCC-19 AND AN/FCC-25 MULTIPLEXER (J.I. Q1008)		KP	
TRA 00090 TROUBLESHOOT AN/FCC-19 AND AN/FCC-25 MULTIPLEXER KEYER (J.I. N0738)	KP		
TRA 00100 TROUBLESHOOT AN/FCC-19 AND AN/FCC-25 MULTIPLEXER CONVERTER (J.I. N0737)	KP		
TRA 00210 TROUBLESHOOT AN/FRA-90 TRANSCEIVER (J.I. Q1054		KP	
TRA 00240 TROUBLESHOOT AN/FRA-90 TRANSCEIVER POWER SUPPLY (J.I. N0725)		KP	
TRA 00270 TROUBLESHOOT AN/FRC-96 RADIO SET GROUP POWER AMPLIFICATION SYSTEM (J.I. N0746)		KP	
TRA 00280 TROUBLESHOOT AN/FRC-96 RADIO SET GROUP EXCITER/RECEIVER SECTION TO MODULE LEVEL OR MECHNICAL COMPONENT LEVEL (J.I. L0550)	KP		
TRA 00300 TROUBLESHOOT AND REPAIR AN/FRC-96 RADIO SET GROUP EXCITER/ RECEIVER SECTION MODULES (J.I. I0230)	KP		
TRA 00330 TROUBLESHOOT AN/FRC-97 RADIO SET GROUP POWER AMPLIFICATION SYSTEM (J.I. L0558)	KP		
TRA 00340 TROUBLESHOOT AN/FRC-97 RADIO SET GROUP EXCITER/RECIVER SECTION TO MODULE LEVEL OR MECHANICAL COMPONENT LEVEL (J.I. K0390)	KP		
TRA 00350 REPAIR AN/FRC-97 RADIO SET GROUP EXCITER/RECIVER SECTION (J.I. K0374, K0477, AND I0229)	KP		
TRA 00360 TROUBLESHOOT AND REPAIR AN/FRC-97 RADIO SET GROUP EXCITER/ RECEIVER SECTION MODULES (J.I. K0406, K0390, AND K0477)	KP		
TRA 00390 TROUBLESHOOT AN/FRC-127 RADIO SET RECEIVE SIDE (J.I. Q1024)		KP	
TRA 00400 TROUBLESHOOT AN/FRC-127 RADIO SET TRANSMIT SIDE J.I. I0230)	KP		
TRA 00440 TROUBLESHOOT AN/FRC-162(V) AND COORDINATE WITH DISTANT END (J.I. J0290)	KP		
TRA 00500 TROUBLESHOOT THE AN/FTA-20 TELEPHONE TERMINAL RECEIVE SECTION (J.I. Q1035)	KP		
TRA 00510 TROUBLESHOOT THE AN/FTA-20 TELEPHONE TERMINAL TRANSMIT SECTION (J.I. Q1045, K0388, AND M0638	KP		
TRA 00540 TROUBLESHOOT THE AN/FTA-28 TELEPHONE TERMINAL TRANSMIT SECTION (J.I. Q1035)	KP		
TRA 00580 TROUBLESHOOT THE AN/FTA-28 TELEPHONE TERMINAL RECEIVE SECTION (J.I. Q1035)	KP		
TRA 00670 TROUBLESHOOT AN/GGC-38 MULTIPLEXER (J.I. N0746)		KP	
TRA 00680 TROUBLESHOOT AN/GGC-38 MULTIPLEXER CIRCUIT CARDS (J.I. N0738)	KP		
TRA 00710 TROUBLESHOOT THE AN/GRC-203 RML RECEIVER(J.I. K0375)	KP		
TRA 00740 TROUBLESHOOT AN/GRC-203 RML SEPARATOR (J.I. K0390)		KP	
TRA 01150 TROUBLESHOOT MD-674(P)/G LOW SPEED MODEM TO COMPONENT LEVEL (J.I. Q1035)	KP		
TRA 01320 TROUBLESHOOT 46A3 MULTIPLEXER (J.I. M0635)		KP	
TRA 01340 TROUBLESHOOT 46A3 MULTIPLEXER POWER SUPPLY (J.I. M0629)		KP	
15.C.(3) REMOVE LINE REPLACEABLE UNITS/COMPONENTS	B		REVIEW
J.I. Q0962 A ADJUST AUDIO AMPLIFIER COMPONENTS (TRA 00290)	KP		
J.I. K0406 K ISOLATE AMLFUNCTIONS IN TUBE TYPE FM RECEIVERS (TRA 00360)	KP		
J.I. K0390 K ISOLATE MALFUNCTIONS INSOLID-STATE FREQUENCY DIVISION MULTIPLEXERS (TRA 00360)	KP		
J.I. K0477 A REPAIR MALFUNCTIONS IN SOLID-STATE FM RECEIVERS (TRA 00360)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X0	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
J.I. I0236 A REMOVE ELECTRONIC SUBASSEMBLIES USING METHODS OTHER THAN SOLDERING (TRA 00520 AND 00550)	KP		
J.I. N0738 K ISOLATE MALFUNCTIONS IN FREQUENCY SHIFT KEYERS (TRA 00680)	KP		
TRA 00290 REPAIR AN/FRC-96 RADIO SET GROUP EXCITER/RECEIVER SECTION (J.I. Q0962)	KP		
TRA 00360 TROUBLESHOOT AND REPAIR AN/FRC-97 RADIO SET GROUP EXCITER/ RECEIVER SECTION MODULE (J.I. K0406, K0390, AND K0477)	KP		
TRA 00520 REMOVE, REPAIR, AND REPLACE AN/FTA-20 TELEPHONE TERMINAL CIRCUIT CARDS (J.I. I0236)	KP		
TRA 00550 REMOVE, REPAIR, AND REPLACE AN/FTA-28 TELEPHONE TERMINAL CIRCUIT CARDS (J.I. I0236)	KP		
TRA 00680 TROUBLESHOOT AN/GGC-38 MULTIPLEXER CIRCUIT CARDS (J.I. N0738)	KP		
15.C.(4) REPLACE LINE REPLACEABLE UNITS/COMPONENTS	B		REVIEW
J.I. Q0962 A ADJUST AUDIO AMPLIFIER COMPONENTS (TRA 00290)	KP		
J.I. K0406 K ISOLATE AMLFUNCTIONS IN TUBE TYPE FM RECEIVERS (TRA 00360)	KP		
J.I. K0390 K ISOLATE MALFUNCTIONS INSOLID-STATE FREQUENCY DIVISION MULTIPLEXERS (TRA 00360)	KP		
J.I. K0477 A REPAIR MALFUNCTIONS IN SOLID-STATE FM RECEIVERS (TRA 00360)	KP		
J.I. I0236 A REMOVE ELECTRONIC SUBASSEMBLIES USING METHODS OTHER THAN SOLDERING (TRA 00520 AND 00550)	KP		
TRA 00290 REPAIR AN/FRC-96 RADIO SET GROUP EXCITER/RECEIVER SECTION (J.I. Q0962)	KP		
TRA 00360 TROUBLESHOOT AND REPAIR AN/FRC-97 RADIO SET GROUP EXCITER/ RECEIVER SECTION MODULE (J.I. K0406, K0390, AND K0477)	KP		
TRA 00520 REMOVE, REPAIR, AND REPLACE AN/FTA-20 TELEPHONE TERMINAL CIRCUIT CARDS (J.I. I0236)	KP		
TRA 00550 REMOVE, REPAIR, AND REPLACE AN/FTA-28 TELEPHONE TERMINAL CIRCUIT CARDS (J.I. I0236)	KP		
15.C.(5) ALIGN AND ADJUST			ADD
J.I. Q0959 A ADJUST ANALOG-TO-DIGITAL CONVERTER COMPONENTS (TRA 00110)	KP		
J.I. Q1004 A ALIGN TRANSCEIVERS (TRA 00220)		KP	
J.I. L0518 A ADJUST SUPER HIGH FREQUENCY (SHF) POWER AMPLIFIER COMPONENTS (TRA 00250)		KP	
J.I. L0521 A ADJUST TRANSMITTER FREQUENCY MODULATION (FM) MODULATOR COMPONENTS (TRA 00310 AND 00370)	KP		
J.I. L0531 A ALIGN FM SHF TRANSMITTERS (TRA 00370)	KP		
J.I. Q0984 A ADJUST LINE AMPLIFIER COMPONENTS (TRA 00410)		KP	
J.I. I0229 A REMOVE ELECTROMECHANICAL COMPONENTS USING METHODS OTHER THEN SOLDERING (TRA 00430)	K	P	
J.I. Q0962 A ADJUST AUDIO AMPLIFIER COMPONENTS (TRA 00490, 00560, 00590, AND 00600)	KP		
J.I. M0621 A ADJUST IN-BAND SIGNALING AND CONTROL CIRCUIT COMPONENTS (TRA 00570)	KP		
J.I. T1392 A ADJUST AUDIO CIRCUITS (TRA 00590)		KP	
J.I. M0629 A ALIGN FREQUENCY DIVISION MULTIPLEXERS (TRA 00690 AND 01330)	KP		
J.I. Q0964 A ADJUST AUTOMATIC FREQUENCY CONTROL (AFC) COMPONENTS (TRA 00720)	K	P	
J.I. K0374 A ALIGN FM RECEIVERS (TRA 00750)		KP	
TRA 00110 ALIGN/ADJUST AN/FCC-19 AND AN/FCC-25 MULTIPLEXER (J.I. Q0959)	KP		
TRA 00220 ALIGN/ADJUST AN/FRA-90 TRANSCEIVER (J.I. Q1004)		KP	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X0	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 00250 ALIGN/ADJUST AN/FRA-90 TRANSCEIVER POWER SUPPLY (J.I. L0518)		KP	
TRA 00310 ALIGN AN/FRC-96 RADIO SET GROUP MODULATOR (J.I. L0521)	KP		
TRA 00370 ALIGN AN/FRC-97 RADIO SET GROUP MODULATOR (J.I. L0521 AND L0531)	KP		
TRA 00410 ALIGN OR ADJUST AN/FRC-127 RADIO SET (J.I. Q0984)		KP	
TRA 00430 ALIGN AND ADJUST FRC-162(V) MICROWAVE RADIO (J.I. I0229)	K	P	
TRA 00490 ALIGN AND ADJUST THE AN/FTA-20 TELEPHONE TERMINAL (J.I. Q0962)	KP		
TRA 00560 ALIGN AND ADJUST THE AN/FTA-28 TELEPHONE TERMINAL TRANSMIT LEVEL (J.I. Q0962)	KP		
TRA 00570 ALIGN AND ADJUST THE AN/FTA-28 TELEPHONE TERMINAL TRANSMIT SIGNAL FREQUENCY AND TIME CONSTANT (J.I. M0621)	KP		
TRA 00590 ALIGN AND ADJUST THE AN/FTA-28 TELEPHONE TERMINAL RECEIVE LEVEL AND SENSITIVITY (J.I. T1392)		KP	
TRA 00600 ALIGN AND ADJUST THE AN/FTA-28 TELEPHONE TERMINAL RECEIVE (J.I. Q0962)	KP		
TRA 00690 ALIGN/ADJUST AN/GGC-38 MULTIPLEXER (J.I. M0629)	KP		
TRA 00720 ALIGN/ADJUST AN/GRC-203 RML RECEIVER (J.I. Q0964)	K	P	
TRA 00750 ALIGN/ADJUST AN/GRC_203 RML SEPARATOR (J.I. K0374)		KP	
TRA 01330 ALIGN/ADJUST 46A3 MULTIPLEXER (J.I. M0629)		KP	
16. TRANSPORTABLE SYSTEMS/EQUIPMENT			
A. MOBILITY PROCEDURES			
(1) PREDEPLOYMENT	A		
(2) EMPLOYMENT	A		
(3) POST DEPLOYMENT	A		
(4) SITE SURVEY	-		
B. PRINCIPLES, CAPABILITIES AND LIMITATIONS			
(1) FREQUENCY DIVISION MULITIPLEX	B		
(2) DIGITAL MULTIPLEX	B		
(3) LINE OF SIGHT RADIO	B		
(4) TROPOSPHERIC SCATTER	B		
C. PERFORM EQUIPMENT MAINTENANCE ROUTINES			
(1) FREQUENCY DIVISION MULITIPLEX	2b		
(2) DIGITAL MULTIPLEX	2b/X		
(3) LINE OF SIGHT RADIO	2b		
16.C.(4) TROPOSPHERIC SCATTER	2b		NONE
J.I. I0248 A REPLACE ELECTRONIC COMPONENTS, OTHER THAN MICROMINITURE COMPONENTS, USING METHODS OTHER THAN SOLDERING (TRA 01250)	KP		
TRA 01250 INSPECT AN/TRC-170 V2 TRANSPORTABLE SYSTEM (J.I. I0248)	KP		
16.C.(5) UHF SATELLITE			ADD
J.I. G0181 A PERFORM PREOPERATIONAL CHECKS OF EQUIPMENT (TRA 01270)	KP		
TRA 01270 INSPECT AN/TSC-102 MOBILE UHF SATELLITE TERMINAL (J.I. G0181)	KP		
D. TROUBLESHOOTING AND REPAIR			
16.D.(1) TROUBLESHOOT SYSTEMS TO ISOLATE MALFUNCTIONS	2b		NONE
J.I. Q1026 K ISOLATE MALFUNCTIONS IN MAIN DISTRIBUTION FRAMES AND ASSOCIATED WIRING (TRA 01260)		KP	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X0	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 01260 TROUBLESHOOT AN/TRC-170 V2 TRANSPORTABLE LOS/TROPO SYSTEM (J.I. Q1026)		KP	
16.D.(2) TROUBLESHOOT EQUIPMENT TO ISOLATE MALFUNCTIONS	2b		NONE
J.I.0G0165 A PERFORM CIRCUIT FAULT ISOLATION PROCEDURES (TRA 01280)		KP	
TRA 01280 TROUBLESHOOT AN/TSC-102 MOBILE UHF SATELLITE TERMINAL (J.I. G0165)		KP	
(2) TROUBLESHOOT EQUIPMENT TO ISOLATE MALFUNCTIONS	2b		
(3) REMOVE LINE REPLACEABLE UNITS/COMPONENTS	B		
(4) REPLACE LINE REPLACEABLE UNITS/COMPONENTS	B		
17. INTRUSION DETECTION SYSTEMS/EQUIPMENT			
A. PRINCIPLES, CAPABILITIES, AND LIMITATIONS			
(1) ANNUNCIATORS	A		
(2) SENSORS			
(A) FENCE	A		
(B) CABLE	A		
(C) VOLUMETRIC	A		
(D) MICROWAVE	A		
(E) INFRARED	A		
(3) CAMERA SURVEILLANCE SYSTEMS	A		
(4) ENTRY CONTROL SYSTEMS	A		
(5) VOICE COMMUNICATIONS	A		
17. B. PERFORM EQUIPMENT MAINTENANCE ROUTINES			
17.B.(1) ANNUNCIATORS	1a/X		REVIEW
J.I. P0871 K ISOLATE SYSTEM MALFUNCTIONS TO CODER MULTIPLEXER SENSOR DATA (TRA 00830)	K	P	
J.I. G0155 A OBSERVE STATUS DISPLAY PANELS TO DETERMINE EQUIPMENT OPERATION (SIGNAL QUALITY) (TRA 00860)	K	P	
TRA 00830 INSPECT AN/GSM-266 MOCK-UP TEST SET FOR AN/GSS-29 (J.I. P0871)	K	P	
TRA 00860 ALIGN/ADJUST AN/GSM-266 TEST SET POWER SUPPLIES AND PRINTER (J.I. G0155)		KP	
(2) SENSORS			
17.B(2)(A) FENCE	1a/X		REVIEW
J.I. P0872 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON PERIMETER SECURITY SYSTEMS (TRA 01030)		KP	
J.I. P0840 A ALIGN SECURITY SYSTEM ANTIPERSONNEL RADAR SYSTEMS (TRA 01050)		KP	
TRA 01030 INSPECT AN/GSS-37 MICROWAVE FENCE SENSOR (J.I. P0872)		KP	
TRA 01050 ALIGN/ADJUST AN/GSS-37 MICROWAVE FENCE SENSOR (J.I. P0840)		KP	
17.B.(2)(B) CABLE	1a/X		REVIEW
J.I. P0872 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON PERIMETER SECURITY SYSTEMS (TRA 01000)		KP	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X0	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
J.I. P0816 A ADJUST SECURITY SYSTEM AREA SENSOR SYSTEM COMPONENTS (TRA 01020)		KP	
J.I. P0827 A ADJUST SECURITY SYSTEM LINE SENSOR SYSTEM COMPONENTS (TRA 01020)		KP	
TRA 01000 INSPECT AN/GSS-26A MAGNETIC ANTI-INTRUSION DETECTION LINE SENSOR (MAID/MILES) (J.I. P0872)		KP	
TRA 01020 ALIGN/ADJUST AN/GSS-26A MAGNETIC INTRUSION LINE SENSOR (MILES) (J.I. P0816 AND 0P0827)		KP	
17.B.(2)(C) VOLUMETRIC	1a/X		REVIEW
J.I. P0873 A PERFORM PMI ON SECURITY SYSTEM ANTIPERSONNEL RADAR SYSTEMS (TRA 00870 AND 01060)		KP	
J.I. P0820 A ADJUST SECURITY SYSTEM DOPPLER SENSOR SYSTEM COMPONENTS (TRA 00880 AND 01080)		KP	
TRA 00870 INSPECT AN/GPS-15 INTERIOR MOTION DETECTOR (J.I. P0873)		KP	
TRA 00880 ADJUST AN/GPS-15 INTERIOR MOTION DETECTOR AMPLIFIER GAIN (J.I. P0820)		KP	
TRA 01060 INSPECT AN/GSS-39 COMMERCIAL SENSORS (J.I. P0873)		KP	
TRA 01080 ALIGN/ADJUST AN/GSS-39 COMMERCIAL SENSORS (J.I. P0820)		KP	
(D) MICROWAVE	1a/X		
(E) INFRARED	1a/X		
17.B.(3) CAMERA SURVEILLANCE SYSTEMS	1a/X		REVIEW
J.I. P0874 A PERFORM PMI ON TELEVISION SECURITY SYSTEMS (TRA 01090)		KP	
TRA 01090 INSPECT AN/GXS-2 PERIMETER SURVEILANCE SYSTEM (J.I. P0874)		KP	
(4) ENTRY CONTROL SYSTEMS	1a/X		
17.B.(5) VOICE COMMUNICATIONS	1a/X		REVIEW
J.I. Q1099 A PERFORM PMI ON PA SYSTEMS (TRA 00900)		KP	
J.I. P0872 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON PERIMETER SECURITY SYSTEMS (TRA 00910, 00920, AND 00930)		KP	
J.I. P0817 A ADJUST SECURITY SYSTEM COMMUNICATION CONTROL CONSOLE COMPONENTS (TRA 00950, 00980, AND 00990)		KP	
J.I. N0725 A ADJUST DIRECT CURRENT (DC) POWER SUPPLY COMPONENTS (TRA 00960)		KP	
J.I. P0834 A ADJUST SECURITY SYSTEM SUBCYCLE RING GENERATOR COMPONENTS (TRA 00970)		KP	
TRA 00910 INSPECT AN/GSQ-199 EQUIPMENT ROOM (J.I. P0872)		KP	
TRA 00920 INSPECT AN/GSQ-199 CONTROL AREA (LOCAL/REMOTE) (J.I. P0872)		KP	
TRA 00930 INSPECT AN/GSQ-199 STATION TELEPHONE INSTRUMENTS (J.I. P0872)			
TRA 00950 ALIGN/ADJUST AN/GSQ-199 COMMUNICATION CENTRAL (J.I. P0817)		KP	
TRA 00960 ALIGN/ADJUST AN/GSQ LORAIN FLOTROL RECTIFIER (J.I. N0725)		KP	
TRA 00970 ALIGN/ADJUST AN/GSQ-199 SUB-CYCLE RINGER (J.I. P0834)		KP	
TRA 00980 ALIGN/ADJUST AN/GSQ-199 AUDIO AMPLIFIER (J.I. P0817)		KP	
TRA 00990 ALIGN/ADJUST AN/GSQ-199 CONSOLE (J.I. P0817)		KP	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X0	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
C. TROUBLESHOOTING AND REPAIR			
17.C.(1) TROUBLESHOOT SYSTEMS TO ISOLATE MALFUNCTIONS	1a/X		REVIEW
J.I. P0847 K ISOLATE MALFUNCTIONS IN SECURITY SYSTEM ANNUNCIATORS (TRA 00840)	KP		
J.I. S1389 A VISUALLY INSPECT INSTALLATION AND INTERCONNECTIONS OF INSTALLED EQUIPMENT (TRA 00890)		KP	
J.I. P0869 K ISOLATE MALFUNCTIONS IN SECURITY SYSTEM VOICE COMMUNICATION SYSTEMS(TRA 00940)		KP	
J.I. P0845 K ISOLATE MALFUNCTIONS IN MICROWAVE FENCE SYSTEMS (TRA 01040)		KP	
J.I. P0858 K ISOLATE MALFUNCTIONS IN SECURITY SYSTEM MICROWAVE DOPPLER CIRCUITS (TRA 01070)		KP	
J.I. P0865 K ISOLATE MALFUNCTIONS IN SECURITY SYSTEM TELEVISION CAMERAS (TRA 01100)		KP	
J.I. N0725 A ADJUST DIRECT CURRENT (DC) POWER SUPPLY COMPONENTS (TRA 01110)		KP	
TRA 00840 TROUBLESHOOT AN/GSQ-266 MOCK-UP TEST SET FOR AN/GSS-29 (J.I. P0847)	KP		
TRA 00890 TROUBLESHOOT AN/GSP-15 INTERIOR MOTION DETECTOR (J.I. OS1389)		KP	
TRA 00940 TROUBLESHOOT AN/GSQ-199 COMMUNICATION CENTRAL (J.I.0P0869)		KP	
TRA 01040 TROUBLESHOOT AN/GSS-37 MICROWAVE FENCE SENSOR (J.I. P0845)		KP	
TRA 01070 TROUBLESHOOT AN/GSS-39 COMMERCIAL SENSORS (J.I. P0858)		KP	
TRA 01100 TROUBESHOOT AN/GXS-2 PERIMETER SURVEILANCE SYSTEM (J.I. P0865)		KP	
TRA 01110 ALIGN/ADJUST AN/GXS-2 PERIMETER SURVEILANCE SYTEM (J.I. N0725)		KP	
17.C.(2) TROUBLESHOOT EQUIPMENT TO ISOLATE MALFUNCTIONS	1a/X		REVIEW
J.I. P0870 K ISOLATE MALFUNCTIONS IN CMSD PRINTED CIRCUIT BOARD TO COMPONENTS (TRA 00850)		KP	
J.I. P0861 K ISOLATE MALFUNCTIONS IN SECURITY SYSTEM SEISMIC SENSOR SYSTEMS (TRA 01010)		KP	
J.I. T1403 A ALIGN CAMERA CIRCUITS (TRA 01120)		KP	
J.I. T1401 A ADJUST VIDEO DISPLAY MONITORS (TRA 01130)		KP	
TRA 00850 TROUBLESHOOT AN/GSM -266 TEST SET LINE REPLACEABLE UNITS (LRU) TO COMPONENT LEVEL (J.I. P0870)		KP	
TRA 01010 TROUBLESHOOT AN/GSS-26A MAGNETIC ANTI-INTRUSION DETECTION MAGNETIC INTRUSION LINE SENSOR (MAID/MILES) (J.I. P0861)		KP	
TRA 01120 ALIGN/ADJUST AN/GXS-2 CAMERA SET TELEVISION (J.I. T1403)		KP	
TRA 01130 ALIGN/ADJUST AN/GXS-2 MONITOR TELEVISION (J.I. T1401)		KP	
(3) REMOVE LINE REPLACEABLE UNITS/COMPONENTS	A/X		
(4) REPLACE LINE REPLACEABLE UNITS/COMPONENTS	A/X		
18. PERFORMANCE ASSESSMENT			
A. CIRCUIT PERFORMANCE STANDARDS	B		
B. OPERATIONAL PRINCIPLES OF CIRCUIT CONDITIONING COMPONENTS AND EQUIPMENT	A		
C. PERFORM SYSTEM TESTING	2b		
D. COMPILE SYSTEMS TEST DATA	1a		
E. EVALUATE SYSTEMS TEST DATA	1a		

SPECIFIC TRAINING RECOMMENDATIONS

STS FOR AFSC 304X4

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
1. CAREER LADDER PROGRESSION			
A. PROGESSION IN CAREER LADDER 304X4	-		
B. DUTIES OF AFSC'S 30434/54/74	-		
2. SECURITY			
A. COMMUNICATIONS SECURITY (COMSEC)			
(1) CLASSIFY INFORMATION	-		
(2) PREVENT SECURITY VIOLATIONS	-		
(3) USE MAJCOM/SOA EEFIS	-		
(4) OBSERVE SECURITY PRECAUTIONS INVOLVED IN COMMUNICATIONS	-		
B. OPERATIONS SECURITY (OPSEC)			
(1) DEFINITION OF OPSEC	-		
(2) HISTORY OF OPSEC	-		
(3) RELATIONSHIP OF OPSEC TO OTHER SECURITY PROGRAMS SUCH AS COMSEC, INFORMATION SECURITY, AND PHYSICAL SECURITY	-		
(4) COMMON OPSEC VULNERABILITIES	-		
(5) OPSEC SIGNIFICANCE OF UNCLASSIFIED DATA AND PROCEDURES	-		
(6) SPECIFIC OPSEC VULNERABILITIES OF AFSC 304X0	A		
C. ELECTRONIC WARFARE			
(1) ELECTRONIC COUNTER COUNTERMEASURES	A		
(2) MIJI REPORTS	A		
3. AF OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM			
A. HAZARDS OF AFSC 304X4	A		
B. COMPLY WITH SAFETY PRECAUTIONS FOR THE PROTECTION OF PERSONNEL AND EQUIPMENT	2b		
C. PLAN, IMPLEMENT, AND CONDUCT SAFETY TRAINING	-		
D. CONDUCT SAFETY INSPECTIONS	-		
4. PARTICIPATE IN THE USAF GRADUATE EVALUATION PROGRAM	b		
5. SUPERVISION			
A. ASSIGN SPONSOR FOR INBOUND PERSONNEL	-		
B. ORIENT NEWLY ASSIGNED PERSONNEL	-		
C. ASSIGN PERSONNEL TO DUTY POSITION	-		
D. DETERMINE REQUIREMENTS AND PRIORITIES FOR			
(1) MAINTENANCE	-		
(2) EQUIPMENT	-		
(3) SUPPLIES	-		
E. PLAN AND SCHEDULE MAINTENANCE WORK			
(1) WORK METHODS	-		
(2) PRODUCTION CONTROLS	-		
(3) PERFORMANCE STANDARDS	-		
(4) INSPECTION PROCEDURES	-		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
F. ASSIGN MAINTENANCE WORK	-		
G. COORDINATE MAINTENANCE PROBLEMS WITH OTHER SECTIONS OR AGENCIES	-		
H. JUSTIFY PERSONNEL AND EQUIPMENT	-		
I. ANALYZE MAINTENANCE AND INSPECTION REPORTS	-		
J. CONDUCT INSPECTIONS	-		
K. EVALUATE WORKER PERFORMANCE	-		
L. RESOLVE TECHNICAL PROBLEMS	-		
M. COUNSEL PERSONNEL TO RESOLVE INDIVIDUAL PROBLEMS	-		
N. INITIATE ACTION TO CORRECT SUBSTANDARD PERSONNEL PERFORMANCE	-		
O. MAINTAIN OFFICE RECORDS	-		
P. MAINTAIN PUBLICATIONS LIBRARIES	-		
Q. PREPARE WRITTEN COMMUNICATIONS	-		
R. REVIEW WRITTEN COMMUNICATIONS	-		
S. PREPARE BRIEFINGS	-		
T. CONDUCT BRIEFINGS	-		
6. TRAINING			
A. EVALUATE PERSONNEL TO DETERMINE TRAINING NEEDS	-		
B. PLAN AND SUPERVISE OJT			
(1) PREPARE JOB QUALIFICATION STANDARDS	-		
(2) CONDUCT TRAINING	-		
(3) COUNSEL TRAINEES ON TRAINING PROGRESS	-		
(4) MONITOR EFFECTIVENESS OF OJT			
(A) CAREER KNOWLEDGE UPGRADE TRAINING	-		
(B) TASK KNOWLEDGE UPGRADE TRAINING	-		
(C) QUALIFICATION TRAINING	-		
(5) MAINTAIN TRAINING RECORDS	-		
(6) EVALUATE EFFECTIVENESS OF TRAINING PROGRAMS	-		
(7) RECOMMEND PERSONNEL FOR TRAINING	-		
7. CE EQUIPMENT MAINTENANCE MANAGEMENT			
A. FUNCTIONS AND RESPONSIBILITIES OF THE CHIEF OF MAINTENANCE	-		
B. BASIC ORGANIZATION AND RESPONSIBILITIES OF THE CHIEF OF MAINTENANCE'S STAFF	-		
C. MAINTENANCE DATA COLLECTION SYSTEM	-		
D. CORE AUTOMATED MAINTENANCE SYSTEMS (CAMS)	-		
8. EC EQUIPMENT MAINTENANCE SYSTEM INSPECTING, REPORTING, AND FORMS			
A. MAINTENANCE SYSTEM INSPECTING AND REPORTING	-		
B. USE MAINTENANCE DATA COLLECTION FORMS	2b		
C. MATERIAL DEFICIENCY REPORTING SYSTEM	-		
D. CONTROL MATERIAL	2b/b		
E. STANDARD BASE SUPPLY SYSTEM			
(1) SUPPLY DISCIPLINE	-		
(2) REQUISITION PARTS	2b/b		
9. TECHNICAL PUBLICATIONS			
A. LOCATE TECHNICAL ORDER NUMBER AND TITLES IN INDEX-TYPE TECHNICAL ORDERS	-		
B. USE TECHNICAL MANUALS AS A SOURCE OF INFORMATION FOR PERFORMNG MAINTNENACE AND INSPECTIONS	2b		
C. LOCATE PROCEDURES FOR IMPLEMENTING TCTO'S	-		
D. USE ABBREVIATED TECHNICAL ORDERS WHEN PERFORMING INSPECTIONS AND MAINTENANCE	2b		
E. LOCATE MAINTENANCE, MANAGEMENT, AND ADMINISTRATIVE INFORMATION IN METHODS AND PROCEDURES TECHNICAL ORDERS	-		
F. LOCATE PART NUMBERS IN ILLUSTRATED PARTS BREAKDOWN TECHNICAL ORDERS	2b		
G. USE STANDARD PUBLICATIONS TO DETERMINE POLICIES, PROCEDURES, INSTRUCTIONS, AND INFORMATION PERTINENT TO MAINTENANCE	-		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
H. INITIATE TECHNICAL ORDER IMPROVEMENT REPORT	-		
I. MAINTAIN TECHNICAL ORDER PUBLICATIONS FILE	-		
10. TEST EQUIPMENT			
A. TEST EQUIPMENT FUNCTION	A		
B. SELECT PROPER SUPPORT EQUIPMENT TO MAINTAIN GROUND RADIO EQUIPMENT	2b		
C. PERFORM EQUIOPMENT MAINTENANCE USING THE FOLLOWING TEST EQUIPMENT			
(1) MULTIMETERS			
(A) ANALOG	-		
(B) DIGITAL	-		
(2) POWER INSTRUMENTS			
(A) DECIBEL METER	2b		
(B) WATTMETER	2b		
(C) DUMMY LOAD	2b		
(3) FREQUENCY INSTRUMENTS			
(A) FREQUENCY METER	-		
(B) FREQUENCY COUNTER	2b		
(4) SIGNAL GENERATORS			
(A) AUDIO FREQUENCY	2b		
(B) RADIO FREQUENCY	2b		
(C) SWEEP	-		
(5) WAVEFORM INSTRUMENTS			
(A) OSCILLOSCOPE	-		
(B) DISTORTION ANALYZER	2b		
(C) SPECTRUM ANALYZER	2b/b		
(6) COMPONENT TESTERS			
(A) TUBE TESTER	-		
(B) DIODE/TRANSISTOR TESTER	-		
(C) INTEGRATED CIRCUIT TESTER	-		
(7) INSULATION TEST SET	-		
(8) IMPEDANCE MATCHING DEVICES	-		
D. RECOGNIZE DEFECTIVE TEST EQUIPMENT	2b		
E. PERFORM ORGANIZATIONAL MAINTENANCE ON TEST	-		
F. SCHEDULE TEST EQUIPMENT FOR CALIBRATION	-		
11. INSTALLATION OF GROUND RADIO EQUIPMENT			
A. POLICIES AND PROCEDURES FOR PROGRAMMING AND PLANNING INSTALLATION OF C-E EQUIPMENT	-		
B. INSTALL GROUND RADIO EQUIPMENT IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS	-		
C. INSPECT GROUND RADIO EQUIPMENT DURING PRE-INSTALLATION AND POST-INSTALLATION PHASES	-		
12. PREVENTATIVE MAINTENANCE			
A. ACCOMPLISH PREVENTATIVE MAINTENANCE INSPECTIONS			
(1) CONDUCT VISUAL INSPECTION	-		
(2) SERVICE EQUIPMENT	-		
(3) CHECK EQUIPMENT OPERATION	-		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
B. PERFORM CORROSION CONTROL ON EQUIPMENT	-		
13. EQUIPMENT MAINTENANCE			
A. CHECK MINIMUM PERFORMANCE STANDARDS ON THE FOLLOWING EQUIPMENT			
(1) TRANSMITTERS			
13.A.(1)(A) HF AM/SSB/ISB	-		REVIEW
J.I. H0383 A OPERATIONALLY CHECK HF EQUIPMENT (TRA 02740)	KP		
J.I. H0391 A OPERATIONALLY CHECK SIDE BAND EQUIPMENT (TRA 03800)	KP		
TRA 03800 INSPECT 618T-1 RECEIVER-TRANSMITTER RADIO (J.I. H0391)	KP		
TRA 02740 INSPECT AN/TSC-107 (HF INDEPENDENT SIDEBAND TRANSMITTER (J.I. H0383)	KP		
13.A.(1)(B) VHF AM	2a		NONE
J.I. J0525 A BENCH CHECK UHF TRANSMITTER (TRA 01870)	KP		
J.I. J0529 A BENCH CHECK VHF TRANSMITTER (TRA 01870)	KP		
TRA 01870 INSPECT AN/GRT-21 VHF AND AN/GRT-22 UHF TRANSMITTERS (J.I. J0525 AND J0529)	KP		
13.A.(1)(C) VHF FM	-		REVIEW
J.I. J0525 A BENCH CHECK UHF TRANSMITTER (TRA 01870)	KP		
J.I. J0529 A BENCH CHECK VHF TRANSMITTER (TRA 01870)	KP		
TRA 01870 INSPECT AN/GRT-21 VHF AND AN/GRT-22 UHF TRANSMITTERS (J.I. J0525 AND J0529)	KP		
13.A.(1)(D) UHF AM	2a		NONE
J.I. J0525 A BENCH CHECK UHF TRANSMITTER (TRA 01870)	KP		
J.I. J0529 A BENCH CHECK VHF TRANSMITTER (TRA 01870)	KP		
TRA 01870 INSPECT AN/GRT-21 VHF AND AN/GRT-22 UHF TRANSMITTERS (J.I. J0525 AND J0529)	KP		
(2) RECEIVERS			
13.A.(2)(A) HF AM/SSB/ISB	2a		REVIEW
J.I. J0505 A BENCH CHECK HF RECEIVERS (TRA 02480 AND 02510)	K	P	
J.I. H0383 A OPERATIONALLY CHECK HF EQUIPMENT (TRA 02750 AND 03910)	KP		
TRA 02480 INSPECT R-2174 (P)/URR HF RADIO RECEIVER (J.I. J0505)	K	P	
TRA 02510 ALIGN/ADJUST R-2174 (P)/URR HF RADIO RECEIVER (J.I. J0505)	K	P	
TRA 02750 INSPECT AN/TSC-107 (HF INDEPENDENT SIDEBAND RECEIVER) GRS-920 (J.I. H0383)	KP		
TRA 03910 INSPECT 651G-1 RECEIVER FILTER (J.I. H0383)	KP		
13.A.(2)(B) VHF AM	2a		NONE
J.I. H0393 A OPERATIONALLY CHECK VHF EQUIPMENT (TRA 01810)	KP		
J.I. J0527 A BENCH CHECK VHF RECEIVERS (TRA 01810)	KP		
TRA 01810 INSPECT AN/GRR-23 VHF RECEIVER (J.I. H0393 AND J0527)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
13.A.(2)(C) VHF FM	-		REVIEW
J.I. H0393 A OPERATIONALLY CHECK VHF EQUIPMENT (TRA 01810)	KP		
J.I. J0527 A BENCH CHECK VHF RECEIVERS (TRA 01810)	KP		
TRA 01810 INSPECT AN/GRR-23 VHF RECEIVER (J.I. H0393 AND J0527)	KP		
13.A.(2)(C) UHF AM	2a		NONE
J.I. H0392 A OPERATIONALLY CHECK UHF EQUIPMENT (TRA 01840)	KP		
J.I. J0523 A BENCH CHECK UHF RECEIVERS (TRA 01840)	KP		
TRA 01840 INSPECT AN/GRR-24 UHF RECEIVER (J.I. H0392 AND J0523)	KP		
(3) TRANSCEIVERS			
13.A.(3)(A) HF AM/SSB/ISB	2a		NONE
J.I. H0383 A OPERATIONALLY CHECK HF EQUIPMENT (TRA 01900, 02310, 02710, 03100, 03850, AND 03940)	KP		
J.I. M0632 A PERFORM OPERATOR MAINTENANCE ON MOBILE EQUIPMENT (TRA 02710)	KP		
J.I. H0373 K ISOLATE MALFUNCTIONS WITHIN HIGH FREQUENCY (HF) EQUIPMENT (TRA 03100)	KP		
J.I. H0391 A OPERATIONALLY CHECK SIDE BAND EQUIPMENT (TRA 03850)	KP		
TRA 01900 INSPECT GSB-900/R PORTABLE HF RADIO (J.I. H0383)	KP		
TRA 02310 INSPECT PACERBOUNCE RT-1446 TRANSCEIVER (J.I. H0383)	KP		
TRA 02710 INSPECT AN/TSC-107 (HF TRANSCEIVER) AN/URC-92 (J.I H0383 AND M0632)	KP		
TRA 03100 INSPECT AN/URC-92 HG/SSB TRANSCEIVER (J.I. H0383 AND H0373)	KP		
TRA 03850 INSPECT 618T-1 RECEIVER-TRANSMITTER RADIO RF TRANSLATOR (J.I. H0383 AND H0391)	KP		
TRA 03940 INSPECT 671B-1 RECEIVER/EXCITER (J.I. H0383)	KP		
13.A.(3)(B) VHF AM	2a		REVIEW
J.I. J0516 A BENCH CHECK MULTIPLE CHANNEL TRANSCEIVERS (TRA 01530)	K	P	
J.I. J0528 A BENCH CHECK VHF TRANSCEIVERS (TRA 01530)	K	P	
J.I. H0379 K ISOLATE MALFUNCTIONS IN SOLID-STATE COMPRESSION AMPLIFIERS (TRA 01540)	KP		
J.I. J0542 A REMOVE OR INSTALL VHF EQUIPMENT PARTS (TRA 01540)	KP		
J.I. J0501 A BENCH CHECK DF CONTROL UNITS (TRA 01550)		KP	
TRA 01530 INSPECT AN/GRC-211 VHF TRANSCEIVER (J.I. H0516 AND J0528)	K	P	
TRA 01540 TROUBLESHOOT AN/GRC-211 VHF TRANSCEIVER (J.I. H0379 AND J0542)	KP		
TRA 01550 ALIGN/ADJUST AN/GRC-211 VHF TRANSCEIVER (J.I. 0501)		KP	
13.A.(3)(C) VHF FM	-		REVIEW
J.I. J0516 A BENCH CHECK MULTIPLE CHANNEL TRANSCEIVERS (TRA 01530)	K	P	
J.I. J0528 A BENCH CHECK VHF TRANSCEIVERS (TRA 01530)	K	P	
J.I. H0379 K ISOLATE MALFUNCTIONS IN SOLID-STATE COMPRESSION AMPLIFIERS (TRA 01540)	KP		
J.I. J0542 A REMOVE OR INSTALL VHF EQUIPMENT PARTS (TRA 01540)	KP		
J.I. J0501 A BENCH CHECK OF CONTROL UNITS (TRA 02730)		KP	
J.I. H0382 A OPERATIONALLY CHECK FM EQUIPMENT (TRA 02440)	KP		
J.I. H0392 A OPERATIONALLY CHECK UHF EQUIPMENT (TRA 02440 AND 02680)	KP		
J.I. H0393 A OPERATIONALLY CHECK VHF EQUIPMENT (TRA 02440,02680 AND 02730)	KP		
TRA 01530 INSPECT AN/GRC-211 VHF TRANSCEIVER (J.I. H0516 AND J0528)	K	K	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 01540 TROUBLESHOOT AN/GRC-211 VHF TRANSCEIVER (J.I. H0379 AND J0542)	KP		
TRA 01550 ALIGN/ADJUST AN/GRC-211 VHF TRANSCEIVER (J.I. 0501)		KP	
TRA 02440 INSPECT AN/PRC-25 AN/PRC-77 (J.I. H0382, H0392, AND H0393)	KP		
TRA 02680 INSPECT AN/TRC-176 UHF/VHF TRANSCEIVER (J.I. H0392 AND H0393)	KP		
TRA 02730 INSPECT AN/TSC-107 (VHF TRANSCEIVER) AN/ARC-186 (J.I. H0393 AND J0501)	KP		
13.A.(3)(D) UHF AM	2a		NONE
J.I. H0392 A OPERATIONALLY CHECK UHF EQUIPMENT (TRA 01480, 02680 AND 02720)	KP		
J.I. H0393 A OPERATIONALLY CHECK VHF EQUIPMENT (TRA 02680)	KP		
J.I. J0516 A BENCH CHECK MULTIPLE CHANNEL TRANSCEIVERS (TRA 01480)	KP		
J.I. H0524 A BENCH CHECK UHF TRANSCEIVERS (TRA 01480)	KP		
J.I. M0632 A PERFORM OPERATOR MAINTENANCE ON MOBILE EQUIPMENT (TRA 02720)	KP		
TRA 01480 INSPECT AN/GRC-171 UHF TRANSCEIVER (J.I. H0392, J0516, AND J0524)	KP		
TRA 02680 INSPECT AN/TRC-176 UHF/VHF TRANSCEIVER (J.I. H0392 AND H0393)	KP		
TRA 02720 INSPECT AN/TSC-107 (UHF TRANSCEIVER) AN/ARC-164 (J.I. H0392 AND M0632)	KP		
13.A.(4) RF LINEAR POWER AMPLIFIER	2a		NONE
J.I. H0383 A OPERATIONALLY CHECK HF EQUIPMENT (TRA 03160,03490,AND 03880)	KP		
TRA 03160 INSPECT URG 208U-10 LINEAR POWER AMPLIFIER (J.I. H0383)	KP		
TRA 03490 INSPECT URG 208U-3 LINEAR POWER AMPLIFIER (J.I. H0383)	KP		
TRA 03880 INSPECT 635W-1 HARMONIC FILTER (J.I. H0383)	KP		
13.A.(5) ANTENA TUNING UNIT/COUPLER	2a		REVIEW
J.I. H0383 A OPERATIONALLY CHECK HF EQUIPMENT (TRA 02800)	KP		
J.I. H0391 A OPERATIONALLY CHECK SIDE BAND EQUIPMENT (TRA 02800)	KP		
J.I. I0456 A OPERATIONALLY CHECK FIXED ANTENNA SYSTEMS (TRA 02390)		KP	
J.I. K0544 A ALIGN ANTENNA COUPLER COMPONENTS (TRA 01410)	K	P	
J.I. K0565 A BENCH CHECK ANTENNA COUPLERS (TRA 01410)			
J.I. M0630 A OPERATIONALLY CHECK MOBILE ANTENNA SYSTEMS (TRA 02390)		KP	
TRA 01410 INSPECT CU-547 ANTENNA COUPLER (J.I. K0544 AND J.I. K0544 AND J0565)	K	P	
TRA 02390 INSPECT PACERBOUNCE CU2310/URC ANTENNA COUPLER (J.I. I0456 AND M0630)		KP	
TRA 02800 INSPECT AN/TSC-107 (ANTENNA COUPLERS), GCU-935, GCU-1935 (J.I. H0383 AND H0391)	KP		
13.A.(6) POWER SUPPLY UNIT	2a		NONE
J.I. H0383 A OPERATIONALLY CHECK HF EQUIPMENT (TRA 02800AND 03690)	KP		
TRA 03390 INSPECT URG 208U-10 POWER SUPPLY UNIT 1 (J.I. H0383)	KP		
TRA 03690 INSPECT URG 208U-3 POWER SUPPLY UNIT (J.I. H0383)	KP		
13.A.(7) COMMUNICATIONS CONSOLE	2a		NONE
J.I. H0386 A OPERATIONALLY CHECK MULTIPLE CHANNEL EQUIPMENT (TRA 01920)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
J.I. H0389 A OPERATIONALLY CHECK RADIO-TELEPHONE SYSTEMS (TRA 02260)	KP		
J.I. I0449 A OPERATIONALLY CHECK AUTOMATIC SWITCHBOARDS (TRA 02260)	KP		
J.I. I0452 A OPERATIONALLY CHECK COMMUNICATIONS PATCH PANELS (TRA 01920 AND 02260)	KP		
J.I. I0462 A OPERATIONALLY CHECK PHONE PATCH SYSTEMS (TRA 01920)	KP		
TRA 01920 INSPECT AN/GSC-37 COMMUNICATIONS TERMINAL (J.I. H0386, I0452, AND I0462)	KP		
TRA 02260 INSPECT OJ-314 SYSTEM (J.I. H0389, I0449, AND I0452)	KP		
13.A.(8) COMMUNICATIONS PATCH PANEL	-		REVIEW
J.I. M0632 A PERFORM OPERATOR MAINTENANCE ON MOBILE EQUIPMENT (TRA 02800)		KP	
J.I. I0449 A OPERATIONALLY CHECK AUTOMATIC SWITCHBOARDS (TRA 02800)		KP	
J.I. I0462 A OPERATIONALLY CHECK PHONE PATCH SYSTEMS (TRA 02790)		KP	
J.I. H0389 A OPERATIONALLY CHECK RADIO-TELEPHONE SYSTEMS (TRA 02790)		KP	
TRA 02620 INSPECT TA-312/PT FIELD PHONE (J.I. M0632)		KP	
TRA 02780 INSPECT AN/TSC-107 (TELEPHONE SWITCHBOARD), SB-3614 (J.I. I0449)		KP	
TRA 02790 INSPECT AN/TSC-107 (TELEPHONE TERMINATING SYSTEM), AN/FTA-28, STU-5A, AN/TSC-107 WESCOM (J.I. H0389 AND I0462)		KP	
13.A.(9) RECORDER/REPRODUCER	2a		REVIEW
J.I. H0466 K PERFORM OPERATIONAL CHECK OF AUDIO RECORDERS AND REPRODUCERS (TRA 02020 AND 02650)	KP		
J.I. H0380 A LUBRICATE MECHANICAL PARTS OF GROUND RADIO EQUIPMENT (TRA 02650)	KP		
J.I. I0448 A OPERATIONALLY CHECK AUTOMATIC RECORDING SYSTEMS (TRA 03990)		KP	
TRA 02020 INSPECT RP-343/GSH REPRODUCER (J.I. I0466)		KP	
TRA 02650 INSPECT TD-2903 TAPE DEGAUSSER (J.I. H0380 AND I0466)	KP		
TRA 03990 INSPECT AN/GSH-56 (J.I. I0448)		KP	
(10) AUDIO LINE AMPLIFIER	2a		
13.A.(11) FACSIMILE	-		REVIEW
J.I. I0448 A OPERATIONALLY CHECK AUTOMATIC RECORDING SYSTEMS (TRA 01350)		KP	
J.I. I0455 A OPERATIONALLY CHECK FACSIMILE SYSTEMS (TRA 02090)		KP	
TRA 01350 INSPECT A.F. DIGITAL GRAPHICS SYSTEM (AFDIGS) MODEL 9500 DMDAF (J.I. I0448)		KP	
TRA 02090 INSPECT MDL-850 R/T HARRIS LASERFAX (J.I. I0455)		KP	
(12) FSK TONE KEYER/CONVERTER	-		
(13) PUBLIC ADDRESS	-		
13.A.(14) MOBILE ANTENNA SYSTEM	-		REVIEW
J.I. H0383 A OPERATIONALLY CHECK HF EQUIPMENT (TRA 03120)	KP		
J.I. I0456 A OPERATIONALLY CHECK FIXED ANTENNA SYSTEMS (TRA 03120 AND 03830)	KP		
TRA 03120 INSPECT 184Z-1 ANTENNA MATRIX (J.I. H0383 AND I0456)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 03830 PERFORMANCE CHECK 184Z-1 ANTENNA MATRIX UNISWITCH (J.I. I0456)		KP	
B. ALIGN AND ADJUST THE FOLLOWING COMMUNICATIONS EQUIPMENT			
(1) TRANSMITTERS			
13.B.(1)(A) HF AM/SSB/ISB	-		REVIEW
J.I. J0491 A ALIGN HIGH FREQUENCY (HF) EQUIPMENT (TRA 03820)	KP		
J.I. J0497 A ALIGN SIDE BAND EQUIPMENT (TRA 03820)	KP		
TRA 03820 ALIGN/ADJUST 618T-1 RECEIVER-TRANSMITTER RADIO (J.I. J0491 AND J0497)	KP		
13.B.(1)(B) VHF AM	2b		NONE
J.I. J0499 A ALIGN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 01890)	KP		
J.I. J0500 A ALIGN VERY HIGH FREQUENCY (VHF) EQUIPMENT (TRA 01890)	KP		
TRA 01890 ALIGN /ADJUST AN/GRT-21 VHF AND AN/GRT-22 UHF TRANSMITTERS (J.I. J0499 AND J0500)	KP		
13.B.(1)(C) VHF FM	-		REVIEW
J.I. J0499 A ALIGN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 01890)	KP		
J.I. J0500 A ALIGN VERY HIGH FREQUENCY (VHF) EQUIPMENT (TRA 01890)	KP		
TRA 01890 ALIGN/ADJUST AN/GRT-21 VHF AND AN/GRT-22 UHF TRANSMITTERS (J.I. J0499 AND J0500)	KP		
13.B.(1)(D) UHF AM	2b		REVIEW
J.I. J0499 A ALIGN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 01890)	KP		
J.I. J0500 A ALIGN VERY HIGH FREQUENCY (VHF) EQUIPMENT (TRA 01890)	KP		
TRA 01890 ALIGN/ADJUST AN/GRT-21 VHF AND AN/GRT-22 UHF TRANSMITTERS (J.I. J0499 AND J0500)	KP		
(2) RECEIVERS			
13.B.(2)(A) HF AM/SSB/ISB	-		REVIEW
J.I. J0491 A ALIGN HIGH FREQUENCY (HF) EQUIPMENT (TRA 2450 AND 03880)	KP		
TRA 02500 ALIGN/ADJUST R-2174 (P)/URR HF RADIO RECEIVER (J.I. J0491)	KP		
TRA 03930 ALIGN 651G-1 RECEIVER FILTER (J.I. J0491)	KP		
13.B.(2)(B) VHF AM	2b		REVIEW
J.I. J0500 A ALIGN VERY HIGH FREQUENCY (VHF) EQUIPMENT (TRA 01890)	K	P	
TRA 01830 ALIGN/ADJUST AN/GRR-23 VHF RECEIVER (J.I. J0500)	K	P	
13.B.(2)(C) VHF FM	-		REVIEW
J.I. J0500 A ALIGN VERY HIGH FREQUENCY (VHF) EQUIPMENT (TRA 01890)	K	P	
TRA 01830 ALIGN/ADJUST AN/GRR-23 VHF RECEIVER (J.I. J0500)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
13.B.( )(D) UHF AM	2b		NONE
J.I. J0499 A ALIGN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 01500 AND 01860)	KP		
TRA 01500 ALIGN/ADJUST AN/GRC-171 UHF TRANSCEIVER (J.I. J0499)	KP		
TRA 01860 ALIGN/ADJUST AN/GRR-24 UHF RECEIVER (J.I. J0499)	KP		
(3) TRANSCEIVERS			
13.B.(3)(A) HF AM/SSB/ISB	2b/1b		NONE
J.I. J0497 A ALIGN SIDE BAND EQUIPMENT (TRA 02330AND 03870)	KP		
J.I. J0491 A ALIGN HIGH FREQUENCY (HF) EQUIPMENT (03870AND 03950)	KP		
TRA 02330 ALIGN/ADJUST PACERBOUNCE RT-1446 TRANSCEIVER (J.I. J0497) (J.I. J0497)	KP		
TRA 03870 ALIGN/ADJUST 618T-1 RECEIVER-TRANSMITTER RADIO RF TRANSLATOR A12 (J.I. I0491 AND I0497)	KP		
TRA 03950 ALIGN 671B-1 RECEIVER/EXCITER (J.I. 03950)	KP		
(B) VHF AM	2b		
13.B.(3)(C) VHF FM	-		REVIEW
J.I. J0490 A ALIGN FREQUENCY MODULATION (FM) EQUIPMENT (TRA 02460 AND 02470)		KP	
TRA 02460 ALIGN AN/PRC-25 AN/PRC-77 TUNING CAPCITORS (J.I. J0490)		KP	
TRA 02470 ALIGN AN/PRC-25 AN/PRC-77 TONE GENERATOR (J.I. J0490)		KP	
(D) UHF AM	2b		
13.B.(4) RF LINEAR POWER AMPLIFIER	2b		NONE
J.I. H0380 A LUBRICATE MECHANICAL PARTS OF GROUND RADIO EQUIPMENT (TRA 03350)	KP		
J.I. J0491 A ALIGN FREQUENCY MODULATION (FM) EQUIPMENT (TRA 02350 02380, 03840, AND 03890)	KP		
J.I. J0497 A ALIGN SIDE BAND EQUIPMENT (TRA 03840)	KP		
J.I. J0499 A ALIGN/ADJUST 208U-10 RF AMPLIFIER UNIT 2 KEYING BIAS SUPPLY (TRA 03200, 03220, AND 3230)	KP		
TRA 02350 ALIGN/ADJUST PACERBOUNCE AM7223/URC LINEAR POWER AMPLIFIER (LPA) (500W) (J.I. J0491)	KP		
TRA 02380 ALIGN/ADJUST PACERBOUNCE AM7224/URC LINEAR POWER AMPLIFIER (LPA) (1KW) (J.I. J0491)	KP		
TRA 03200 ALIGN/ADJUST 208U-10 RF AMPLIFIER UNIT 2 KEYING BIAS SUPPLY (J.I. J0499)	KP		
TRA 03220 ALIGN/ADJUST URG 208U-10 RF AMPLFIER UNIT 2 2A18 DRIVER AMPLIFIER (J.I. J0499)	KP		
TRA 03230 SYNCHRONIZE URG 208U-10 RF AMPLIFIER UNIT 2 DRIVER PLATE TUNING ASSEMBLY (J.I. J0499)	KP		
TRA 03530 ALIGN/ADJUST URG 208U-3 RF AMPLIFIER UNIT INPUT/DRIVER AMPLIFIER (J.I. J0499)	KP		
TRA 03550 SYNCHRONIZE URG 208U-3 RF AMPLIFIER UNIT 1A15, 1A16, 1A17, 1A18, DRIVE ASSEMBLIES (J.I. H0380)	KP		
TRA 03840 ALIGN/ADJUST 618T-1 RECEIVER-TRANSMITTER RADIO POWER AMPIFIER A11 (J.I. J0491 AND J0497)	KP		
TRA 03890 ALIGN 635W-1 HARMONIC FILTER (J.I. J0491)	KP		
13.B.(5) ANTENNA TUNING UNIT/COUPLER	2b/1b		NONE

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
J.I. K0544 A ALIGN ANTENNA COUPLER COMPONENTS (TRA 02410)	KP		
TRA 02410 ALIGN/ADJUST PACERBOUNCE CU2310/URC (J.I. K0544)	KP		
13.B.(6) POWER SUPPLY UNIT	2b		NONE
J.I. J0499 A ALIGN/ADJUST 208U-10 RF AMPLIFIER UNIT 2 KEYING BIAS SUPPLY (TRA 03450,03480,03750,AND 03790)	KP		
TRA 03450 ALIGN/ADJUST URG 208U-10 POWER SUPPLY UNIT 1 1A10 AUTOMATIC FILAMENT VOLTAGE REGULATOR (J.I. J0499)	KP		
TRA 03480 ALIGN/ADJUST URG 208U-10 POWER SUPPLY UNIT 1 1TB6 PLATE CURRENT OVERLOAD CIRCUIT (J.I. J0499)	KP		
TRA 03750 ALIGN/ADJUST RUG 208U-3 POWER SUPPLY UNIT 1A7 AUTOMATIC INPUT VOLTAGE REGULATOR (J.I. J0499)	KP		
TRA 03790 ALIGN/ADJUST URG 208U-3 POWER SUPPLY UNIT PA CATHODE SCREEN/CURRENT AND OVERLOAD RECYCLE TIMER CIRCUIT (J.I. J0499)	KP		
13.B.(7) COMMUNICATIONS CONSOLE	2b		REVIEW
J.I. I0410 A ADJUST INTERCOM SYSTEM (TRA 02280AND 02300)			
J.I. K0555 A ALIGN INTERCOM EQUIPMENT DISCRETE PARTS(TRA 02280 AND 00250)		KP KP	
J.I. K0579 A BENCH CHECK POWER SUPPLY UNITS (TRA 02280AND 02300)			
J.I. K0548 A ALIGN AUXILIARY EQUIPMENT POWER SUPPLY UNIT DISCRETE PARTS (TRA 02280 AND 02300)			
J.I. K0549 A ALIGN BACKUP POWE EQUIPMENT DISCRETE PARTS (TRA 02280 AND 02300)			
TRA 02280 ALIGN/ADJUST OJ-314 CONSOLE (J.I. I0410 AND J.I. AND J.I. K0555)		KP	
TRA 02300 ALIGN/ADJUST OJ-314 POWER SUPPLIES (J.I. K0548, K0549, AND K0579)	KP		
13.B.(8) COMMUNICATIONS PATCH PANEL/FIELD PHONES	-		REVIEW
J.I. M0632 A PERFORM OPERATOR MAINTENANCE ON MOBILE EQUIPMENT(TRA 02590)		KP	
TRA 02640 ALIGN AND ADJUST THE TA-312/PT (J.I. M0632)		KP	
13.B.(9) RECORDER/REPRODUCER/DEGAUSER	2b		REVIEW
J.I. K0546 A ALIGN AUDIO RECORDER_REPRODUCER DISCRETE PARTS (TRA 02670)	KP		
J.I. K0547 A ALIGN AUTOMATIC RECORDING EQUIPMENT DISCRETE PARTS (TRA 04010 AND 04020)		KP	
TRA 02670 ALIGN/ADJUST TD-2903 TAPE DEGAUSSER (J.I. K0546)	KP		
TRA 04010 ADJUST AN/GSH-56 MECHANICAL ASSEMBLIES(J.I. K0547)		KP	
TRA 04020 ADJUST AN/GSH-56 ELECTRICAL COMPONENTS (J.I. K0547)		KP	
13. B. (10) AUDIO LINE AMPLIFIER	2b		
13. B. (11) FACSIMILE	-		REVIEW
J.I. I0455 A OPERATIONALLY CHECK FACSIMILE SYSTEMS (TRA 01360, 01370, 02130, AND 02140)		KP	
J.I. K0572 A BENCH CHECK FACSIMILE SYSTEM (TRA 02130 AND 02140)		KP	
TRA 01360 ALIGN A.F. DIGITAL GRAPHICS SYSTEM (AFDIGS) MODEL 9500 DMDAF TACHOMETER ASSEMBLY (J.I. I0455)		KP	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 01370 ADJUST A.F. DIGITAL GRAPHICS SYSTEM, (AFDIGS) MODEL 9500 DMDF LOOP BLADE ASSEMBLY (J.I. I0455)		KP	
TRA 02130 ALIGN MDL_850 R/T HARRIS LASERFAX (J.I. K0572)		KP	
TRA 02140 ALIGN MDL-850 R/T HARRIS LASERFAX MECHANICAL COMPONENTS (J.I. K0572)		KP	
13.B. (12) FSK TONE KEYER/CONVERTER	-		
13.B. (13) PUBLIC ADDRESS	-		
13.B.(14) MOBILE ANTENNA SYSTEM	-		REVIEW
J.I. J0491 A ALIGN HIGH FREQUENCY (HF) EQUIPMENT (TRA 3090)		KP	
TRA 03140 ADJUST 184Z-1 ANTENNA MATRIX UNITSWITCH (J.I. J0491)			
C. TROUBLESHOOT THE FOLLOWING COMMUNICATIONS EQUIPMENT			
(1) TRANSMITTERS			
13.C.(1)(A) HF AM/SSB/ISB	-		REVIEW
J.I. H0373 A ISOLATE MALFUNCTIONS WITHIN HIGH FREQUENCY (HF) EQUIPMENT (TRA 2790 AND 2910)	KP		
J.I. J0491 A ALIGN HIGH FREQUENCY (HF) EQUIPMENT (TRA 2790)	KP		
J.I. J0534 A REMOVE OR INSTALL HF EQUIPMENT PARTS (TRA 2790 AND 2910)	KP		
J.I. H0396 A REMOVE OR INSTALL HF SYSTEM LRU (TRA 2910)	KP		
J.I. J0505 A BENCH CHECK HF RECEIVERS (TRA 3760)	KP		
TRA 02840 TROUBLESHOOT AN/TSC-107 (HF INDEPENDENT SIDEBAND TRANSMITTER) GSE-924, GSL-1900 AND PS-1900 (J.I. H0373, J0491, J0534 AND H0396)	KP K	 P	
TRA 02960 TROUBLESHOOT AN/TSC-60(V)5 COMMUNICATIONS CENTRAL (EXCITER) HF 8014 (J.I. H0373 AND J.I. J0534)	K	P	
TRA 03810 TROUBLESHOOT 618T-1 RECEIVER-TRANSMITTER RADIO/PARTS (J.I. J0505)	K	P	
13.C.(1)(B) VHF AM	2b		REVIEW
J.I. H0378 A ISOLATE MALFUNCTIONS WITHIN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 01880)	KP		
J.I. H0379 A ISOLATE MALFUNCTIONS WITHIN VERY HIGH FREQUENCY (VHF) EQUIPMENT (TRA 01880)	KP		
TRA 01880 TROUBLESHOOT AN/GRT-21 VHF AND AN/GRT-22 UHF TRANSMITTER (J.I. H0378 AND J.I. H0379)	KP		
13.C.(1)(C) VHF FM	-		REVIEW
J.I. H0378 A ISOLATE MALFUNCTIONS WITHIN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 01880)	KP		
J.I. H0379 A ISOLATE MALFUNCTIONS WITHIN VERY HIGH FREQUENCY (VHF) EQUIPMENT (TRA 01880)	KP		
TRA 01880 TROUBLESHOOT AN/GRT-21 VHF AND AN/GRT-22 UHF T TRANSMITTERS (J.I. H0378 AND J.I. H0379)	KP		
13.C.(1)(D) UHF AM	2b		NONE
J.I. H0378 A ISOLATE MALFUNCTIONS WITHIN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 01880)	KP		
J.I. H0379 A ISOLATE MALFUNCTIONS WITHIN VERY HIGH FREQUENCY (VHF) EQUIPMENT (TRA 01880)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 01880 TROUBLESHOOT AN/GRT-21 VHF AND AN/GRT-22 UHF TRANSMITTERS (J.I. H0378 AND J.I. H0379)	KP		
(2) RECEIVERS			
13 C.(2)(A) HF AM/SSB/ISB	2b		NONE
J.I. J0505 A BENCH CHECK HF RECEIVERS (TRA 02490 AND 02520)	KP		
J.I. J0534 A REMOVE OR INSTALL HF EQUIPMENT PARTS (TRA 02520, 02850, AND 03920)			
J.I. H0373 A ISOLATE MALFUNCTIONS WITHIN HIGH FREQUENCY (HF) EQUIPMENT (TRA 02520, 02950, AND 03920)	KP		
J.I. G0299 A INSTALL MULTIPLE CHANNEL HF RECEIVERS (TRA 2800)	KP		
J.I. H0396 A REMOVE OR INSTALL HF SYSTEM LRU (TRA 02950)	KP		
TRA 02490 TROUBLESHOOT R-2174 (P)/URR HF RADIO RECEIVER (J.I. J0505)			
TRA 02520 TROUBLESHOOT R-2174 (P)/URR HF RADIO RECEIVER FRONT PANEL (J.I. J0505, J0534, AND H0373)	KP		
TRA 02850 TROUBLESHOOT AN/TSC-107 (HF INDEPENDENT SIDEBAND RECEIVER) GSR-920 (J.I. J0534 AND G0299)	KP		
TRA 02950 TROUBLESHOOT AN/TSC-60(V)5 COMMUNICATIONS CENTRAL (RECEIVER) HF 8054 (J.I. H0373 AND H0396)	KP		
TRA 03830 TROUBLESHOOT 651G-1 RECEIVER FILTER TO DISCREET COMPONENT LEVEL (J.I. J0534 AND J0373)	KP		
13.C.(2)(B) VHF AM	2b		REVIEW
J.I. H0379 A ISOLATE MALFUNCTIONS WITHIN VERY HIGH FREQUENCY (VHF) EQUIPMENT (TRA 1770)	K	P	
J.I. J0542 A REMOVE OR INSTALL VHF EQUIPMENT PARTS (TRA 1770)	K	P	
TRA 01820 TROUBLESHOOT AN/GRR-23 VHF RECEIVER (J.I. H0379 AND J0542)	K	P	
13.C.(2)(C) VHF FM	-		REVIEW
J.I. H0379 A ISOLATE MALFUNCTIONS WITHIN VERY HIGH FREQUENCY (VHF) EQUIPMENT (TRA 01820)	K	P	
J.I. J0542 A REMOVE OR INSTALL UHF EQUIPMENT PARTS (TRA 01820)	K	P	
TRA 01820 TROUBLSHOOT AN/GRR-23 VHF RECEIVER (J.I. H0379 AND J05442)	KP		
13.C.(2)(D) UHF AM	2b		NONE
J.I. H0378 A ISOLATE MALFUNCTIONS WITHIN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 1800)	KP		
J.I. J0541 A REMOVE OR INSTALL UHF EQUIPMENT PARTS (TRA 1800)	KP		
TRA 01850 TROUBLESHOOT AN/GRR-24 UHF RECEIVER (J.I. H0378 AND J0541)	KP		
(3) TRANSCEIVERS			
13.C.(3)(A) HF AM/SSB/ISB	2b		REVIEW
J.I. J0505 A BENCH CHECK HF RECIEVERS (TRA 01910)	KP		
J.I. J0534 A REMOVE OR INSTALL HF EQUIPMENT PARTS (TRA 01910 AND 03980)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
J.I. H0373 A ISOLATE MALFUNCTIONS WITHIN HIGH FREQUENCY (HF) EQUIPMENT (TRA 02320,02760,03960, AND 03970)	KP		
J.I. H0377 A ISOLATE MALFUNCTIONS WITHIN SIDEBAND EQUIPMENT (TRA 02320AND 03970)	KP		
J.I. H0396 A REMOVE OR INSTALL HF SYSTEM LRU (TRA 02320)	KP		
J.I. J0497 A ALIGN TARGET TRANSMITTERS (TRA 02810)	KP		
J.I. J0491 A ALIGN FREQUENCY MODULATION (FM) EQUIPMENT (TRA 03110)	KP		
J.I. J0516 A BENCH CHECK MULTIPLE CHANNEL TRANSCEIVERS (TRA (03110)	KP		
J.I. G0340 A INSTALL SINGLE CHANNEL SIDE BAND RECEIVERS (TRA 03860)		KP	
TRA 01910 TROUBLESHOOT GSB-900/R PORTABLE HF RADIO (J.I. J0505 AND J0534)	KP		
TRA 02320 TROUBLESHOOT PACERBOUNCE RT-1446 TRANSCEIVER (J.I. H0373, H0377, AND H0396)	KP		
TRA 02810 TROUBLESHOOT AN/TSC-107 (HF TRANSCEIVER) URC-92 (J.I. J0497)	KP		
TRA 03110 TROUBLESHOOT AN/URC-92 HF/SSB TRANSCEIVER (J.I. J0491 AND J0516)	KP		
TRA 03860 TROUBLESHOOT 618T-1 RECEIVER-TRANSMITTER RADIO RF TRANSMITTER A1 (J.I. G0340)		KP	
TRA 03960 TROUBLESHOOT 671B-1 RECEIVER/EXCITER TO SUBASSEMBLY LEVEL (J.I. H0373)	KP		
TRA 03970 TROUBLESHOOT 618Z RF TRANSLATOR AND 789X-1 IF TRANSLATOR TO CIRCUIT CARD OR MODULE LEVEL OR COMPONENT LEVEL (J.I. H0373 AND H0377)	KP		
TRA 03980 TROUBLESHOOT 671B-1 RECEIVER/EXCITER FROM CIRCUIT CARD OR MODULE LEVEL TO DISCREET COMPONENT OR CHASSIS MOUNT (J.I. J0534)	KP		
(B) VHF AM			
13.C.(3)(C) VHF FM	-		REVIEW
J.I. H0372 A ISOLATE MALFUNCTIONS WITHIN FREQUENCY MODULATION (FM) EQUIPMENT (TRA 02450)	KP		
J.I. J0499 A ALIGN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 02700)	KP		
J.I. H0379 A ISOLATE MALFUNCTIONS WITHIN VERY HIGH FREQUENCY (VHF) EQUIPMENT (TRA 02820)	K	P	
J.I. H0404 A REMOVE OR INSTALL SIDE BAND SYSTEM LRU (TRA 02320)	K	P	
TRA 02320 TROUBLESHOOT PACERBOUNCE RT-1446 TRANSCEIVER (J.I. H0404)	K	P	
TRA 02450 TROUBLESHOOT AN/PRC-25 AN/PRC-77 (J.I. H0372)	KP		
TRA 02700 ALIGN/ADJUST AN/TRC-176 UHF/VHF TRANSCEIVER (J.I. J0499)	KP		
TRA 02820 TROUBLESHOOT AN/TSC-107 (VHF TRANSCEIVER) AN/ARC-186 (J.I. H0379 AND J.I. H0404)	K	P	
13.C.(3)(D) UHF AM	2b		NONE
J.I. J0499 A ALIGN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 02700)	KP		
J.I. H0378 A ISOLATE MALFUNCTION WITHIN ULTRA HIGH FREQUENCY (UHF) EQUIIPMENT (TRA 2780)	KP		
J.I. J0541 A REMOVE OR INSTALL UHF EQUIPMENT PARTS (TRA 02830)			
TRA 02700 ALIGN/ADJUST AN/TRC-176 UHF/VHF TRANSCEIVER (J.I. J0499)	KP		
TRA 02830 TROUBLESHOOT AN/TSC-107 (UHF TRANSCEIVER) AN/ARC-164 (J.I. H0378 AND H0404)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
13.C.(4) RF LINEAR POWER AMPLIFIER	2b		NONE
J.I. H0373 A ISOLATE MALFUNCTIONS WITHIN LOW FREQUENCY (HF) EQUIPMENT (TRA 02340, 02370, 02970, 03830, AND 03900)	KP		
J.I. H0396 A REMOVE OR INSTALL HF SYSTEM LRU (TRA 02340)	KP		
J.I. H0378 A ISOLATE MALFUNCTIONS WITHIN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 03170, 03180, 03190, 03210, 03260, 03280, 03300, 03310, 03340, 03360, 03520, 03560, 03580, 03600, 03630, 03650, AND 03660)	KP		
J.I. H0392 A OPERATIONALLY CHECK UHF EQUIPMENT (TRA 03170)	KP		
J.I. H0522 A BENCH CHECK UHF POWER AMPLIFIERS (TRA 03170)	KP		
J.I. J0541 A REMOVE OR INSTALL UHGF EQUIIPMENT PARTS (TRA 03180, 03210, 03260, 03280, 03300, 03310, 03340, 03360, 03520, 03560, 03580, 03600, 03610, 03630, 03650, AND 03660)	KP		
J.I. H0380 A LUBRICATE MECHANICAL PARTS OF GROUND RADIO EQUIPMENT (TRA 03240)	KP		
J.I. K0593 A REMOVE OR INSTALL EQUIPMENT POWER SUPPLY UNIT DISCRETE PARTS (TRA 03330)	KP		
J.I. H0380 A LUBRICATE MECHANICAL PARTS OF GROUND RADIO EQUIPMENT (TRA 03540)	KP		
J.I. J0518 A BENCH CHECK POWER SUPPLY EQUIPMENT (TRA 03760)	KP		
J.I. H0593 A REMOVE OR INSTALL DATA LINK SYSTEM DISCRETE PARTS (TRA 03760)	KP		
J.I. H0377 A ISOLATE MALFUNCTIONS WITHIN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 03830)	KP		
TRA 02340 TROUBLESHOOT PACERBOUNCE AM7223/URC LINEAR POWER (J.I. H0373 AND H0396)	KP		
TRA 02370 TROUBLESHOOT PACERBOUNCE AM7224/URC LINEAR POWER (J.I. H0373)	KP		
TRA 02970 TROUBLESHOOT AN/TSC-60(V)5 COMMUNICATIONS CENTRAL (POWER AMPLIFIER) HF 8021, HF 8022 (J.I. H0373)	KP		
TRA 03170 TROUBLESHOOT URG 208U-10 LINEAR POWER AMPLIFIER TO SUBASSEMBLY LEVEL (J.I. J0522, H0378, AND H0392)	KP		
TRA 03180 TROUBLESHOOT URG 208U-10 RF AMPLIFIER UNIT 2 2A14 AMPLIFIFIER CONTROL (J.I. H0378 AND J0541)	KP		
TRA 03190 TROUBLESHOOT URG 208U-10 RF AMPLIFIER UNIT 2 2A13 KEYING BIAS SUPPLY (J.I. H0378 AND J0541)	KP		
TRA 03210 TROUBLESHOOT URG 208U-10 RF AMPLIFIER UNIT 2 2A18 DRIVER AMPLIFIER (J.I. H0378 AND J0541)	KP		
TRA 03240 TROUBLESHOOT URG 208U010 RF AMPLIFIER UNIT 2 2A8, 2A9, 2A10, 2A11 DRIVE ASSEMBLIES (J.I. H0380)	KP		
TRA 03260 TROUBLESHOOT URG 208U-10 RF AMPLIFIER UNIT 2 2A7 DIRECTIONAL COUPLER AND LOW PASS FILTER ASSEMBLY (J.I. H0378 AND J0541)	KP		
TRA 03280 TROUBLESHOOT URG 208U-10 RF AMPLIFIER UNIT 2 2A20 POWER AMPLIFIER SUBASSEMBLLY (J.I. H0378 AND J0541)	KP		
TRA 03300 TROUBLESHOOT URG 208U-10 RF AMPLIFIER UNIT 2 SERVO AMPLIFIERS (J.I. H0378 AND J0541)	KP		
TRA 03310 TROUBLESHOOT URG 208U-10 RF AMPLIFIER UNIT 2 METER BOX (J.I. H0378 AND J0541)	KP		
TRA 03330 TROUBLESHOOT 208U-10 RF AMPLIFIER UNIT 2 MINUS 1250 VOLT ZENER DIODE VOLTAGE DIVIDER (J.I. K0593)	KP		
TRA 03340 TROUBLESHOOT 208U-10 RF AMPLIFIER UNIT 2 PA TUNING COMPONENTS (J.I. H0378 AND J0541)	KP		
TRA 03360 TROUBLESHOOT 208U-10 RF AMPLIFIER UNIT 2 PA CHOPPER BOARD AND LOADING LOCKOUT ASSEMBLIES (J.I. H0378 AND J0541)	KP		
TRA 03520 TROUBLESHOOT URG 208U-3 RF AMPLIFIER UNIT 1A15 INPUT AMPLIFIER/DRIVER CHASSIS (J.I. H0378 AND J.I. J0541)	KP		
TRA 03540 TROUBLESHOOT URG 208U-3 RF AMPLIFIER UNIT 1A15, 1A16, 1A17, 1A18 DRIVE ASSEMBLIES (J.I. H0380)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 03560 TROUBLESHOOT URG 208U-3 RF AMPLIFIER UNIT 1A13 DIRECTIONAL COUPLER AND 1A27 LOW PASS FILTER ASSEMBLIES (J.I. H0378 AND H0541)	KP		
TRA 03580 TROUBLESHOOT URG 208U-3 RF AMPLIFIER UNIT POWER AMPLIFIR COMPARTMENT (J.I. H0378 AND J0541)	KP		
TRA 03600 TROUBLESHOOT URG 208U-3 RF AMPLIFIER UNIT SERVO AMPLIFIERS AND ASSEMBLY (J.I. H0378 AND J0541)	KP		
TRA 03610 TROUBLESHOOT URG 208U-3 RF AMPLIFIER UNIT METER PANEL (J.I. H0378 AND J0541)	KP		
TRA 03630 TROUBLESHOOT 208U-3 RF AMPLIFIER UNIT 1A22 DIGITAL DISCRIMINATOR (J.I. H0378 AND J0541)	KP		
TRA 03650 TROUBLESHOOT URG 208U-3 RF AMPLIFIER UNIT 1A14 DETECTOR ASSEMBLY (J.I. H0378 AND J0541)	KP		
TRA 03660 TROUBLESHOOT 208U-3 RF AMPLIFIER UNIT PA TUNING COMPONENTS (J.I. H0378 AND J0541)	KP		
TRA 03760 TROUBLESHOOT URG 208U-3 RF AMPLIFIER UNIT 1A2 DRIVER POWER SUPPLY UNIT (J.I. J0518 AND K0593)	KP		
TRA 03830 TROUBLESHOOT 618T-1 RECEIVER-TRANSMITTER RADIO POWER AMPLIFIER A11 (J.I. H0377 AND H0373)	KP		
TRA 03900 TROUBLESHOOT 635W-1 HARMONIC FILTER TO DISCREET COMPONENT LEVEL (J.I. H0373)	KP		
13.C.(5) ANTENNA TUNING UNIT/COUPLER	2b/1b		REVIEW
J.I. J0585 A REMOVE AND REPLACE ANTENNA COUPLER DISCRETE PARTS (TRA 01420)		KP	
J.I. K0565 A BENCH CHECK ANTENNA COUPLERS (TRA 02400)		KP	
J.I. I0431 A ISOLATE MALFUNCTIONS WITHIN MOBILE ANTENNA SYSTEMS TO LRU (TRA 02900)		KP	
J.I. M0617 A ADJUST MOBILE ANTENNA SYSTEMS (TRA 02900)		KP	
TRA 01420 TROUBLESHOOT CU-547 ANTENNA COUPLER (J.I. J0585)		KP	
TRA 02400 TROUBLESHOOT PACERBOUNCE CU2310/URC ANTENNA COUPLER (J.I. K0565)		KP	
TRA 02900 TROUBLESHOOT AN/TSC-107 (ANTENNA COUPLER) GCU-935, GCU-1935 (J.I. I0431 AND M0617)		KP	
13.C.(6) POWER SUPPLY UNIT	2b		NONE
J.I. J0537 A REMOVE OR INSTALL POWER SUPPLY EQUIPMENT PARTS (TRA 02360, 03400, 03410 AND 03740)	KP		
J.I. K0579 A BENCH CHECK POWER SUPPLY UNITS (TRA 02360)	KP		
J.I. H0383 A OPERATIONALLY CHECK HF EQUIPMENT (TRA 03400 AND 03410)	KP		
J.I. J0518 A BENCH CHECK .OWER SUPPLY EQUIPMENT (TRA 03420 AND 03720)	KP		
J.I. K0593 A REMOVE OR INSTALL EQUIPMENT POWER SUPPLY UNIT DISCRETE PARTS (TRA 03420, 03380, 03440, 03460, 03470, 03710, 03720, 03730, 03770, AND 03780)	KP		
J.I. H0378 A ISOLATE MALFUNCTIONS WITHIN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 03700)	KP		
J.I. J0561 A ALIGN ROTATING ANTENNA EQUIPMENT DISCRETE PARTS (TRA 03700)	KP		
TRA 02360 TROUBLESHOOT PACERBOUNCE PP7913/URC POWER SUPPLY AND EXTERNAL GENERATOR (J.I. J0537 AND K0579)	KP		
TRA 03400 TROUBLESHOOT URG208U-10 POWER SUPPLY UNIT 1 (J.I. H0383 AND J0537)	KP		
TRA 03410 TROUBLESHOOT URG 208U-10 POWER SUPPLY UNIT 1 28 VOLT POWER SUPPLY (J.I. H0383)	KP		
TRA 03420 TROUBLESHOOT URG 208U-10 POWER SUPPLY UNIT 1 1A8 BIAS SUPPLY (J.I. J0518 AND K0593)	KP		
TRA 03430 TROUBLESHOOT URG 208U-10 POWER SUPPLY UNIT 1 PA POWER CONTROL AND INTERLOCK CIRCUITS (J.I. K0593)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 03440 TROUBLESHOOT URG 208U-10 POWER SUPPLY UNIT 1 1A10 AUTOMATIC FILAMENT VOLTAGE REGULATOR (J.I. K0593)	KP		
TRA 03460 TROUBLESHOOT URG 208U-10 POWER SUPPLY UNIT 1 6250 VOLT/1250 VOLT DC POWER SUPPLY (TRA K0593)	KP		
TRA 03470 TROUBLESHOOT URG 208U-10 POWER SUPPLY UNIT 1 1TB6 PLATE CURRENT OVERLOAD CIRCUIT (J.I. K0593)	KP		
TRA 03700 TROUBLESHOOT URG 208U-3 RF AMPLIFIER UNIT METER PANEL (J.I. H0378 AND J0541)	KP		
TRA 03710 TROUBLESHOOT URG 208U-3 POWER SUPPLY UNIT 28 VOLT POWER SUPPLY (J.I. K0593)	KP		
TRA 03720 TROUBLESHOOT URG 201U-3 POWER SUPPLY UNIT 1A3 BIAS KEYER POWER SUPPLY (J.I. J0518 AND K0593)	KP		
TRA 03730 TROUBLESHOOT URG 208U-3 POWER SUPPLY UNIT PA POWER CONTROL AND INTERLOCK CIRCUITS (J.I. K0593)	KP		
TRA 03740 TROUBLESHOOT URG 208U-3 POWER SUPPLY UNIT A7 AUTOMATIC INPUT VOLTAGE REGULATOR (J.I. J0537)	KP		
TRA 03770 TROUBLESHOOT URG 208U-3 POWER SUPPLY UNIT 3250 VOLT/-1250 VOLT DC POWER SUPPLY (J.I. K0593)	KP		
TRA 03780 TROUBLESHOOT URG 208U-3 POWER SUPPLY UNIT PA CATHODE SCREEN/CURRENT AND OVERLOAD RECYCLE TIMER CIRCUIT (J.I. K0593)	KP		
13.C.(7) COMMUNICATIONS CONSOLE	2b		REVIEW
J.I. I0430 A ISOLATE MALFUNCTIONS WITHIN MOBILE ANTENNA SYSTEMS TO LRU (TRA 01930, AND 01940)		KP	
J.I. I0481 A REMOVE OR INSTALL INTERCOM EQUIPMENT LRU (TRA 01930 AND 01940)		KP	
J.I. I0432 A ISOLATE MALFUNCTIONS WITHIN PHONE PATCH SYSTEMS TO LRU (TRA 01950)		KP	
J.I. K0578 A BENCH CHECK PHONE PATCH SYSTEM COMPONENTS (TRA 01960)		KP	
J.I. K0599 A REMOVE OR INSTALL OPERATOR CONSOLE DISCRETE PARTS(TRA 01960, 01980, AND 01990)		KP	
J.I. N0648 A ISOLATE MALFUNCTIONS WITHIN RADIO TYPE MAINTENANCE NETWORK (RTMN) OR COMPONENTS (TRA 01970)		KP	
J.I. K0576 A BENCH CHECK OPERATOR CONSOLE COMPONENTS (TRA 01980 01990,AND 02000)		KP	
J.I. K0543 A SOLDER COMMUNICATIONS EQUIPMENT COMPONENTS (TRA 02000)	KP		
J.I. K0596 A REMOVE OR INSTALL INTERCOM EQUIPMENT DISCRETE PARTS (TRA 02010)		KP	
TRA 01880 TROUBLESHOOT AN/GSC-37 COMMUNICATIONS TERMINAL OPERATOR POSITION LANDLINE SELECTOR UNIT (J.I. I0430 AND I0481)		KP	
TRA 01890 TROUBLESHOOT AN/GSC-37 COMMUNICATIONS TERMINAL OPERATOR POSITION (INCLUDES MAINT, ASR, PAR, SUP) (J.I. I0430 AND I0481)		KP	
TRA 01900 TROUBLESHOOT AN/GSC-37 COMMUNICATION TERMINAL POSITION CONSOLE AMPLIFIER (J.I. I0432)		KP	
TRA 01910 TROUBLESHOOT AN/GSC-37 COMMUNICATION TERMINAL OPERATOR POSITION RADIOPHONE SELECTOR MODULE (J.I. J0578 AND J0599)		KP	
TRA 01920 TROUBLESHOOT AN/GSC-37 COMMUNICATION TERMINAL OPERATOR POSITION INTERCOM SELECTOR UNIT 1 (J.I. N0648)		KP	
TRA 01930 TROUBLESHOOT AN/GSC-37 COMMUNICATION TERMINAL OPERATOR POSITION OPERATOR'S JACKBOX (J.I. K0576 AND K0599)		KP	
TRA 01940 TROUBLESHOOT AN/GSC-37 COMMONICATION TERMINAL OPERATOR POSITION MONITOR SELECTOR UNIT (J.I. K0576 AND K0599)			
TRA 01950 TROUBLESHOOT AN/GSC-37 COMMUNICATION TERMINAL OPERATOR POSITION TOUCH TONE UNIT (J.I. K0576 AND K0543)		KP	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
13.C.(8) COMMUNICATIONS PATCH PANEL	-		REVIEW
J.I. J0543 A SOLDER COMMUNICATIONS EQUIPMENT COMPONENTS (TRA 02630)	KP		
J.I. I0419 A ISOLATE MALFUNCTIONS WITHIN AUTOMATIC SWITCHBOARDS (TRA 02880)		KP	
J.I. I0469 A REMOVE OR INSTALL AUTOMATIC SWITCHBOARD COMPONENTS (TRA 02880)		KP	
J.I. I0423 A ISOLATE MALFUNCTIONS WITHIN COMMUNICATIONS PATCH PANELS TO LRU (TRA 03010)		KP	
J.I. K0591 A REMOVE OR INSTALL COMMUNICATION PATCH PANEL DISCRETE PARTS (TRA 03010)		KP	
TRA 02630 TROUBLESHOOT THE TA-312/PT (J.I. J0543)	KP		
TRA 02880 TROUBLESHOOT AN/TSC-107 (TELEPHONE SWITCHBOARD) SB-3614 (J.I. I0419 AND I0469)		KP	
TRA 03010 TROUBLESHOOT AN/TSC-60(V)5 COMMUNICATION CENTRAL PATCH PANEL (J.I. I0423 AND K0591)		KP	
13.C.(9) RECORDER/REPRODUCER/DEGAUSER	2b		REVIEW
J.I. K0587 A REMOVE OR INSTALL AUDIO RECORDER-REPRODUCER DISCRETE PARTS (TRA 02660)	K	P	
J.I. I0483 A REMOVE OR INSTALL RECORDER AND REPRODUCER LRU (TRA 02660)	K	P	
TRA 02660 TROUBLESHOOT TD-2903 TAPE DEGAUSER (J.I. K0587 AND I0483)	K	P	
13.C.(10) AUDIO LINE AMPLIFIER	2b		
13.C.(11) FACSIMILE	-		REVIEW
J.I. I0425 A ISOLATE MALFUNCTIONS WITHIN FACSIMILE SYSTEMS TO LRU (TRA 01390, 01400 AND 02100)	KP		
J.I. I0476 A REMOVE OR INSTALL FACSIMILE EQUIPMENT LRU (TRA 01390 AND 02100)	KP		
TRA 01390 TROUBLESHOOT A.F. DIGITAL GRAPHICS SYSTEM (AFDIGS) MODEL 9500 DMDAF ELECTRICAL COMPONENTS (J.I. I0425 AND I0476)	KP		
TRA 01400 TROUBLESHOOT A.F DIGITAL GRAPHICS SYSTEM (AFDIGS) MODEL 9500 DMDAF MECHANICAL COMPONENTS (J.I. I0425)	KP		
TRA 02100 TROUBLESHOOT MDL-850 R/T HARRIS LASERFAX (J.I. I0425 AND I0476)	KP		
13.C.(12) FSK TONE KEYER/CONVERTER	-		REVIEW
J.I. I0427 A ISOLOATE MALFUNCTIONS WITHIN FIXED ANTENNA SYSTEMS TO LRU (TRA 02990)		KP	
J.I. I0435 A ISOLATE MALFUNCTIONS WITHIN SIGNAL SHIFTERS TO LRU (TRA 02990)		KP	
J.I. I0478 A REMOVE OR INSTALL FREQUENCY SHIFT CONVERTER LRU (TRA 02990)		KP	
TRA 02990 TROUBLESHOOT AN/TSC-60(V)5 CENTRAL (SIGNAL CONVERTER) STU-2A (J.I. I0427, I0435, AND I0478)		KP	
13.C.(13) PUBLIC ADDRESS			

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
13.C.(14) MOBILE ANTENNA SYSTEM/ANT MATRIX	-		REVIEW
J.I. L0614 A REMOVE OR INSTALL DUMMY LOAD ANTENNA PARTS (TRA 03000)		KP	
J.I. M0636 A REMOVE OR INSTALL LRU OF MOBILE ANTENNA SYSTEMS (TRA 03000)		KP	
J.I. H0373 A ISOLATE MALFUNCTIONS WITHIN HIGH FREQUENCY (HF) EQUIPMENT (TRA 03150)		KP	
J.I. J0534 A REMOVE OR INSTALL HF EQUIPMENT PARTS (TRA 03150)		KP	
TRA 03000 TROUBLESHOOT AN/TSC-60(V)5 COMMUNICATIONS CENTRAL (ANTENNA SYSTEMS) OE-85, OE-86, AS-2481 AND AS-2482 (J.I. L0614 AND M0636)		KP	
TRA 03150 TROUBLESHOOT 184Z-1 ANTENNA MATRIX (J.I. H0373 AND J0534)		KP	
13.C.(15) COMMUNICATION INTERFACE			ADD
J.I. I0424 A ISOLATE MALFUNCTIONS WITHIN DATA LINK SYSTEMS TO LRU (TRA 02070)		KP	
J.I. K0603 A REMOVE OR INSTALL REMOTE CONTROL UNIT DISCRETE PARTS (TRA 02080)		KP	
TRA 02070 TROUBLESHOOT OA-9034(V) RADIO INTERFACE GROUP TO SUBASSEMBLY LEVEL (J.I. I0424)		KP	
TRA 02080 TROUBLESHOOT OA-9034(V)/GYC-8(V) RADIO INTERFACE GROUP FROM SUBASSEMBLY LEVEL TO CIRCUIT CARD LEVEL (J.I. K0636)		KP	
13.C.(16) MODEMS			ADD
J.I. K0545 A ALIGN ANTENNA TUNING UNIT DISCRETE PARTS (TRA 02160)		KP	
J.I. K0427 A ISOLATE MALFUNCTIONS WITHIN FREQUENCY SHIFT CONVERT ERS TO LRU (TRA 02860)		KP	
J.I. I0478 A REMOVE OR INSTALL FREQUENCY SHIFT CONVERTER LRU (TRA 02860)		KP	
J.I. K0546 A ALIGN TUNE KEYER AND CONVERTER PARTS (TRA 02860)		KP	
TRA 02160 TROUBLESHOOT MD-1061 DIGITAL DATA MODEM (J.I. K0545)		KP	
TRA 02860 TROUBLESHOOT AN/TSC-107 (MODEMS) MD-674, MD-1124, 1290VFT, MD-1061, MPC-1000T (J.I. I0427, I0478, AND K0546)		KP	
13.C.(17) REMOTE CONSOLE			ADD
J.I. K0581 A BENCH CHECK REMOTE CONTROL UNITS (TRA 02420)		KP	
TRA 02420 TROUBLESHOOT PACERBOUNCE C-11329/URC REMOTE CONTROL UNIT (J.I. K0581)		KP	
13.D. PERFORM OPERATIONAL CHECK ON LINE REPLACEABLE UNIT PRIOR TO USE	2/b		
13.E. USE WIRING DIAGRAMS AND SCHEMATICS DURING MAINTENACE	2/b		
13.F. TROUBLESHOOT MALFUNCTIONS TO A DISCRETE COMPONENT	2b/1b		
13.G. REPLACE DEFECTIVE COMPONENTS	2b/1b		REVIEW
J.I. J0534 A REMOVE OR INSTALL HF EQUIPMENT PARTS (TRA 02530)	KP		
J.I. J0532 A PERFORM HIGH RELIABILITY SOLDERING OF INTEGRATED CIRCUITS (TRA 03020)	K	P	
J.I. K0598 A REMOVE OR INSTALL MULTIPLEX EQUIPMENT DISCRETE PARTS (TRA 03020)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 02530 REPAIR R-2174 (P)/UUR RECEIVER FRONT PANEL ASSEMBLY (J.I. J0534)	KP		
TRA 03020 REPAIR CARDS ASSOCIATED WITH AN/TSC-60(V)5 COMMUNICATIONS CENTRAL SYSTEM (J.I. K0598 AND J0532)	K	P	
13.H. PERFORM HIGH RELIABILITY SOLDERING OF INTEGRATED CIRCUITS	-		
13.I. ACCOMPLISH TCTO MODIFICATIONS ON EQUIPMENT	-		
14. SYSTEMS MAINENANCE			
A. FUNCTIONS OF GRC SYSTEM COMPONENTS	A		
B. CHECK MINIMUM PERFORMANCE STANDARDS ON THE FOLLOWING COMMUNICATIONS SYSTEMS			
14.B.(1) POINT-TO-POINT	-		REVIEW
J.I. H0383 A OPERATIONALLY CHECK HF EQUIPMENT (TRA 1510)	KP		
J.I. H0391 A OPERATIONALLY CHECK SIDE BAND EQUIPMENT (TRA 1510)	KP		
TRA 01560 INSPECT THE AN/GRC-212 HF/ISB COMMAND CONTROL SYSTEM (J.I. H0383 AND H0391)	KP		
14.B.(2) GROUND-TO-AIR	2b		NONE
J.I. H0383 A OPERATIONALLY CHECK HF EQUIPMENT (TRA 1510)	KP		
J.I. H0391 A OPERATIONALLY CHECK SIDE BAND EQUIPMENT (TRA 1510)	KP		
TRA 01560 INSPECT THE AN/GRC-212 HF/ISB COMMAND CONTROL SYSTEM (J.I. H0383 AND H0391)	KP		
14.B.(3) BASE COMMUNICATIONS	-		
14.B.(4) MISSILE COMMUNICATIONS	-		
14.B.(5) MOBILE OR TRANSPORTABLE COMMUNICATIONS SYSTEMS	-		REVIEW
J.I. H0383 A OPERATIONALLY CHECK HF EQUIPMENT (TRA 01510 AND 02250)	KP		
J.I. H0392 A OPERATIONALLY CHECK UHF EQUIPMENT (TRA 01510)	KP		
J.I. H0393 A OPERATIONALLY CHECK VHF EQUIPMENT (TRA 01510)	KP		
J.I. J0493 A ALIGN MULTIPLE CHANNEL TRANSMISSION EQUIPMENT (TRA 02170)	KP		
J.I. J0499 A ALIGN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 02170)	KP		
J.I. J0500 A ALIGN VERY HIGH FREQUENCY (VHF) EQUIPMENT (TRA 02170)	KP		
J.I. H0391 A OPERATIONALLY CHECK SIDE BAND EQUIPMENT (TRA 02190 02230 AND 02250)	KP		
J.I. M0630 A OPERATIONALLY CHECK MOILIZERS OR TRANSPORTERS (TRA 02190)	KP		
J.I. K0565 A BENCH CHECK ANTENNA COUPLERS (TRA 02240)	KP		
J.I. M0632 A PERFORM OPERATOR MAINTENANCE ON MOBILE EQUIPMENT (TRA 02250)	KP		
J.I. G0285 A INSTALL FACSIMILE SYSTEMS (TRA 02920)		KP	
J.I. M0621 A INSTALL MOBILE ANTENNA SYSTEMS (TRA 02920)		KP	
J.I. M0622 A INSTALL STATION GROUNDS ON VANS SHELTERS (TRA 02920)		KP	
J.I. H0382 A OPERATIONALLY CHECK FM EQUIPMENT (TRA 02930)		KP	
J.I. H0389 A OPERATIONALLY CHECK READIO-TELEPHONE SYSTEMS (TRA 02930)		KP	
J.I. J0496 A ALIGN RADIO-TELETYPE EQUIPMENT (TRA 02930)		KP	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 01510 INSPECT AN/GRC-206 V3 MOBILE HF/VHF/UHF COMMUNICATIONS SYSTEM (J.I. H0383, H0392, AND H0393)	KP		
TRA 02170 INSPECT AN/MRC-107 MOBILE HF/VHF/UHF COMMUNICATIONS SYSTEM (J.I. J0493, J0499, AND J0500)	KP		
TRA 02190 INSPECT AN/MRC-117 RADIO SET (J.I. M0630 AND H0391)	KP		
TRA 02230 PERFORMANCE TEST AN/MRC-117 RADIO SET 618T TRANSCEIVER (H0391)	KP		
TRA 02240 PERFORMANCE TEST AN/MRC-117 RADIO SET 490T-1 ANTENNA COUPLER (J.I. K0565)	KP		
TRA 02250 PREPARE AN/MRC-117 RADIO SET FOR MOBILE OPERATION (J.I. M0632, H0391, AND H0383)	KP		
TRA 02920 SET UP/TEAR DOWN AN/TSC-107 SYSTEM (J.I. G0285, M0621, AND M0622)		KP	
TRA 02930 INSPECT AN/TSC 60(V)5 COMMUNICATIONS CENTRAL (407L/485L) (J.I. H0382M H0389, AND J0496)		KP	
TRA 03040 SET UP/TEAR DOWN AN/TSC-60(V)5 COMMUNICATIONS CENTRAL STYSTEM (J.I. M0621 AND M0622)		KP	
TRA 03050 INSPECT AN/SW-7 MOBILE CENTRAL TOWER (J.I. I0450 AND I0466)	KP		
14.C. ALIGN AND ADJUST THE FOLLOWING COMMUNICATIONS SYSTEMS			
14.C.(1) POINT-TO-POINT	-		
14.C.(2) GROUND-TO-AIR	2B		
14.C.(3) BASE COMMUNICATIONS	-		
14.C.(4) MISSILE COMMUNICATIONS	-		
14.C.(5) MOBILE OR TRANSPORTABLE COMMUNICATIONS SYSTEMS	-		REVIEW
J.I. J0494 A ALIGN RADIO-TELEGRAPH EQUIPMENT (TRA 02220)	KP		
J.I. J0497 A ALIGN SIDE BAND EQUIPMENT (TRA 02220)	KP		
TRA 02220 ALIGN OR ADJUST AN/MRC-117 RADIO SET (J.I. J0494 AND J0497)	KP		
14.C.(6) CONTROL SITE			ADD
J.I. J0491 A ALIGN AND ADJUST THE AN/GRC-212 HF/ISB COMMAND CONTROL SYSTEM SOLID STATE VOICE STORAGE UNIT (TRA 01590,01600,01610,01620,01630,01640 AND 01650)	KP		
J.I. J0518 A BENCH CHECK POWER SUPPLY EQUIPMENT (TRA 01600)	KP		
J.I. K0504 A BENCH CHECK HF POWER AMPLIFIERS OR SUBASSEMBLIES (TRA 01640)	KP		
J.I. K0562 A ALIGN SIGNAL CONDITIONING EQUIPMENT PARTS (TRA 02560)		KP	
TRA 01590 ALIGN AND ADJUST THE AN?GRC-212 HF/ISB COMMAND CONTROL SYSTEM SOLID STATE VOICE STORAGE UNIT (J.I. J0491)	KP		
TRA 01600 ALIGN AND ADJUST THE AN/GRC-212 HF/ISB COMMAND CONTROL SYSTEM DC POWER SUPPLY (J.I. J0518)	K	P	
TRA 01610 ALIGN AND ADJUST THE AN/GRC-212 HF/ISB COMMAND CONTROL SYSTEM STATION PAK (J.I. J0491)	KP		
TRA 01620 ALIGN AND ADJUST THE AN/GRC-212 HF/ISB COMMAND CONTROL SYSTEM MATRIX PRINTER (J.I. J0491)	KP		
TRA 01630 ALIGN AND ADJUST THE AN/GRC-212 HF/ISB COMMAND CONTROL SYSTEM STANDARD FREQUENCY GROUP (J.I. J0491)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 01640 ALIGN AND ADJUST THE AN/GRC-212 HF/ISB COMMAND CONTROL SYSTEM DUAL LINE AMPLIFIER (J.I. J0491)	KP		
TRA 01650 ALIGN AND ADJUST THE AN/GRC-212 HF/ISB COMMAND FREQUENCY SIGNAL UNIT (J.I. J0491)	KP		
TRA 02560 ALIGN OR ADJUST SW-3600 4 WIRE SWITCHBOARD (J.I. K0562)		KP	
14.D. TROUBLESHOOT THE FOLLOWING COMMUNICATIONS SYSTEMS TO A LINE REPLACEABLE UNIT (LRU)			
14.D.(1) POINT-TO-POINT	-		ADD
J.I. H0377 A ISOLATE MALFUNCTIONS WITHIN SIDE BAND EQUIPMENT (TRA 01660)	KP		
J.I. H0404 A REMOVE OR INSTALL SIDE BAND SYSTEM RU (TRA 01660)	KP		
TRA 01660 TROUBLESHOOT THE AN/GRC-212 HF/ISB COMMAND CONTROL SYSTEM STATION (J.I. H0377 AND H0404)	KP		
14.D.(2) GROUND-TO-AIR	2b		
14.D.(3) BASE COMMUNICATIONS	-		
14.D.(4) MISSILE COMMUNICATIONS	-		
14.D.(5) MOBILE OR TRANSPORTABLE COMMUNICATIONS SYSTEMS	-		REVIEW
J.I. H0383 A OPERATIONALLY CHECK HF EQUIPMENT (TRA 01520 AND 02180)	KP		
J.I. H0393 A OPERATIONALLY CHECK VHF EQUIPMENT (TRA 01520)	KP		
J.I. M0632 A PERFORM OPERATOR MAINTENANCE ON MOBILE EQUIPMENT (TRA 01520)	KP		
J.I. H0375 A ISOLATE MALFUNCTIONS WITHIN MULTIPLE CHANNEL EQUIPMENT (TRA 02180)	KP		
J.I. I0462 A OPERATIONALLY CHECK TARGET TRANSMITTERS (TRA 01520 AND 02180)	KP		
J.I. H0373 A ISOLATE MALFUNCTIONS WITHIN HIGH FREQUENCY (HF) EQUIPMENT (TRA 02210)	KP		
J.I. N0648 A ISOLATE MALFUNCTIONS WITHIN RADIO TYPE MAINTENANCE NETWORK (RTMN) OR COMPONENTS (TRA 02210)	KP		
J.I. H0399 A REMOVE OR INSTALL MULTIPLE CHANNEL SYSTEM LRU (TRA 02910)	KP		
J.I. H0403 A REMOVE OR INSTALL RADIO-TELETYPE SYSTEM LRU (TRA 02910)	KP		
J.I. M0636 A REMOVE OR INSTALL LRU OF MOBILE ANTENNA SYSTEMS (TRA 02910)	K	P	
J.I. I0422 A ISOLATE MALFUNCTIONS WITHIN BROADCASTING SYSTEMS TO LRU (TRA 02940)		KP KP	
J.I. I0423 A ISOLATE MALFUNCTIONS WITHIN COMMUNICATIONS PATCH PANELS TO LRU (TRA 02940)			
J.I. H0378 K ISOLATE MALFUNCTIONS WITHIN ULTRA HIGH FREQUENCY (UHF) EQUIPMENT (TRA 03060)	KP		
J.I. H0392 A OPERATIONALLY CHECK UHF EQUIPMENT (TRA 03060)	KP		
J.I. I0420 K ISOLATE MALFUNCTIONS WITHIN BATTERY CHARGERS TO LRU (TRA 03060)	KP		
TRA 01520 TROUBLESHOOT AN/GRC-206 V3 MOBILE HF/VHF/UHF COMMUNICATIONS SYSTEM (J.I. H0383, H0393, AND M0632)			

SPECIALTY TRAINING STANDARD (STS) AFSC 304X4	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 02180 TROUBLESHOOT AN/MRC-107 MOBILE HF/VHF/UHF COMMUNI ATIONS SYSTEMS (J.I. H0375, H0383, AND I0462)	K	P	
TRA 02200 TROUBLESHOOT AN/MRC-117 RADIO SET TO MAJOR COMPONENT LEVEL (J.I. H0373 AND H0377)	K	P	
TRA 02210 TROUBLESHOOT AN/MRC RADIO SET TO MODULE AND INDIVIDUAL COMPONENT LEVEL (J.I. H0373 AND N0648)	K	P	
TRA 02910 TROUBLESHOOT AN/TSC-107 SYSTEM TO IDENTIFY DEFECTIVE MAJOR SUBSYSTEMS (J.I. H0399, H0403, AND M0636)	K	P	
TRA 02940 TROUBLESHOOT AN/TSC-60(V)5 COMMUNICATIONS CENTRAL (407L/485L) (J.I. I0422 AND I0423)			
TRA 03060 TROUBLESHOOT AN/SW-7 MOBILE CENTRAL TOWER (J.I. H0378 H0392, AND I0420)			
14.E. REPLACE LINE REPLACEABLE UNITS (LRU)	2b		
14.F. POST ENTRIES ON APPLICABLE MAINTENANCE AND INSPECTION RECORDS AND COMPONENTS	-		

SPECIFIC TRAINING RECOMMENDATIONS

STS FOR AFSC 304X6

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
1. SECURITY			
A. COMMUNICATIONS SECURITY (COMSEC)			
(1) SECURITY CLASSIFICATIONS	-		
(2) PREVENT SECURITY VIOLATIONS	-		
(3) USE MAJCOM/SOA EEFIS	-		
(4) OBSERVE SECURITY PRECAUTIONS INVOLVED IN COMMUNICATIONS	-		
(5) FACILITY PHYSICAL SECURITY MEASURES	-		
B. OPERATIONS SECURITY (OPSEC)			
(1) BACKGROUND AND HISTORY OF OPSEC	-		
(2) DEFINITION OF OPSEC	-		
(3) RELATIONSHIP OF OPSEC TO OTHER SECURITY PROGRAMS SUCH AS COMSEC, INFORMATION SECURITY, AND PHYSICAL SECURITY	-		
(4) COMMON OPSEC VULNERABILITIES	-		
(5) OPSEC SIGNIFICANCE OF UNCLASSIFIED DATA AND PROCEDURES	-		
(6) SPECIFIC OPSEC VULNERABILITIES OF AFSC 304X0	A		
C. TEMPEST	A		
2. AF OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM			
A. HAZARDS OF AFSC 304X0	A		
B. AFOSH STANDARDS APPLICABLE TO AFSC 304X0	-		
C. PERFORM SAFETY INSPECTION	-		
D. COMPLY WITH SAFETY PRECAUTIONS FOR THE PROTECTION OF PERSONNEL AND EQUIPMENT	2b		
3. SATELLITE COMMUNICATIONS PRINCIPLES			
A. MISSION OBJECTIVES	A		
B. ORBITAL MECHANICS	A		
C. SATELLITE EARTH TERMINAL LOOK ANGLES	A		
D. SATELLITE CHARACTERISTICS	A		
E. RF TRANSMISSION THEORY	A		
F. TYPICAL EARTH TERMINAL CONFIGURATION	A		
G. SATELLITE TRACKING METHODS	A		
H. ANTENNA CONTROL SYSTEMS	A		
I. ELECTRO-MAGNETIC PULSE	A		
4. CAREER LADDER PROGRESSION			
A. PROGESSION IN CAREER LADDER 304X6	A		
B. DUTIES OF AFSC'S 30436/56/76			
(1) 30436A DSCS	A		
(2) 30436B AFSATCOM	A		
(3) 30436C GMF	A		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION	
5. SUPERVISION AND TRAINING				
A. SUPERVISION				
(1) PARTICIPATE IN USAF GRADUATE EVALUATION PROGRAM	-			
(2) ORIENT NEWLY ASSIGNED PERSONNEL AND MAKE DUTY ASSIGNMENTS	-			
(3) INITIATE CORRESPONDENCE AND LOCAL POLICIES CONCERNING MAINTENANCE ACTIVITIE	-			
(4) COORDINATE WORK WITH OTHER PERSONNEL AND OFFICES	-			
(5) PLAN				
(A) WORK ASSIGNMENTS	-			
(B) WORK PRIORITIES	-			
(6) SCHEDULE				
(A) WORK ASSIGNMENTS	-			
(B) WORK PRIORITIES	-			
(7) ASSIGN MAINTENANCE AND WORK	-			
(8) ANALYZE MAINTENANCE AND INSPECTION REPORTS AND CHARTS	-			
(9) ESTABLISH PERFORMANCE STANDARDS	-			
(10) EVALUATE PERSONNEL PERFORMANCE				
(A) COMPLETE APPROPRIATE RATING FORMS	-			
(B) COUNSEL PERSONNEL AND RESOLVE INDIVIDUAL PROBLEMS	-			
B. TRAINING				
(1) PLAN, CONDUCT, AND SUPERVISE OJT	-			
(2) COUNSEL TRAINEES ON TRAINING PROGRESS	-			
(3) EVALUATE EFFECTIVENESS OF TRAINING PROGRAMS	-			
(4) MAINTAIN TRAINING RECORDS	-			
(5) CONDUCT PERSONNEL TRAINING USING QTP'S IF APPLICABLE	-			
6. C-E EQUIPMENT MAINTENANCE MANAGEMENT				
A. FUNCTIONS AND RESPONSIBILITES OF THE CHIEF OF MAINTENANCE	A			
B. BASIC ORGANIZATION	A			
7. TECHNICAL PUBLICATIONS				
A. PUBLICATION SYSTEM	A			
B. MAINTAIN FILES OF AIR FORCE TECHNICAL ORDERS AND OTHER PUBLICATIONS	-			
C. LOCATE REQUIRED MAINTENANCE INFORMATION IN APPLICABLE TECHNICAL ORDRS OR MANUALS	2b			
D. USE TECHNICAL PUBLICATIONS WHEN PERFORMING MAINTENANCE AND INSPECTION TASKS	2b			
E. REPORT TECHNICAL ORDER DEFICIENCIES	B			
F. CORE AUTOMATED MAINTENANCE SYSTEM (CAMS)	-			
8. CE EQUIPMENT MAINTENANCE SYSTEM INSPECTING, REPORTING, AND FORMS				

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
A. MAINTENANCE SYSTEM INSPECING AND REPORTING	-		
B. MAINTENANCE DATA COLLECTION SYSTEM	-		
C. USE MAINTENANCE DATA COLLECTION FORMS	-		
9. CE EQUIPMENT LOGISTICS MANAGEMENT			
A. SUPPLY SYSTEM	-		
B. SUPPLY PROCEDURES			
(1) REQUISITION MATERIAL AND PARTS	-		
(2) TURN-IN MATERIAL AND PARTS	-		
(3) MAINTAIN BENCH STOCK AND FORWARD SUPPLY POINT	-		
C. MAINTAIN SUPPLY DOCUMENATION	-		
D. MAINTAIN EQUIPMENT ACCOUNTABILITY RECORDS (CA/CRL)	-		
E. MAINTAIN PMEL ACCOUNT	-		
F. MATERIAL DEFICIENCY REPORTING PROCEDURES	-		
10. ELECTRONIC PRINCIPLES APPLICABLE TO TASKS LISTED IN THIS STS			
11. TEST EQUIPMENT			
A. FUNCTIONS AND APPLICATION OF TEST EQUIPMENT	A		
B. CALCULATE POWER MEASUREMENT	2b		
C. PERFORM EQUIPMENT MAINTENANCE CHECKS USING THE FOLLOWING TEST EQIPMENT			
(1) MULTIMETER	2b		
(2) ELECTRONIC MULTIMETER	2b		
(3) SIGNAL GENERATOR	2b		
(4) OSCILLOSCOPE	2b		
(5) POWER METER	2b		
(6) FREQUENCY COUNTER	2b		
(7) SPECTRUM ANALYZER	2b		
(8) SWEEP GENERATOR	2b		
(9) ATTENUATORS (FIXED AND VARIABLE)	2b		
(10) WAVEMETER	2b		
(11) BUILT-IN TEST EQUIPMENT (BITE)	2b		
(12) BIT ERROR RATE TEST SET	2b		
(13) EBNO/NOISE TEST SET	2b		
(14) HIGH VOLTAGE PROBE	2b		
(15) CRYSTAL DETECTORS	2b		
(16) WAVEGUIDE COUPLERS AND ADAPTERS	2b		
(17) X-Y RECORDERS	2b		
(18) FIBER OPTICS TEST EQUIPMENT	2b		
E. PERFORM USER CALIBRATION OF TEST EQUIPMENT	2b		
F. IDENTIFY DEFECTIVE TEST EQUIPMENT	B		
12. DEFENSE SATELLITE COMMUNICATIONS SYSTEMS (DSCS)			
A. SYSTEM PRINCIPLES			
(1) COMMUNICATION SUBSYSTEM (CSS)			
(A) LOW SPEED TIME DIVISION MULTIPLEXERS (TDM)	B		
(B) HIGH SPEED TDM	B		
(C) VOICE TDM	B		
(D) VOICE AND DATA PATCH PANELS	B		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
(F) FOWARD ERROR CORRECTON ENCODERS AND DECODERS	B		
(G) SPECTRUM SHAPING FILTERS	B		
(H) SPREAD SPECTRUM EQUIPMENT	B		
(I) INTERCONNECT FACILITY EQUIPMENT	B		
(2) FREQUENCY GENERATION EQUIPMENT			
(A) FREQUENCY STANDARD			
((1)) CESIUM	B		
((2)) CRYSTAL	B		
(B) FREQUENCY DISTRIBUTION SYSTEM	B		
(C) FREQUENCY SYNTHESIZER	B		
(3) COMMUNICATION TRANSMITTER AND RECEIVER EQUIPMENT			
(A) INTERMEDIATE FREQUENCY (IF) PATCH PANELS	B		
(B) UPCONVERTER	B		
(C) INTERMEDIATE FACILITY LINK AMPLIFIER (IFLA)	B		
(D) INTERMEDIATE POWER AMPLIFIER (IPA)	B		
(E) FINAL POWER AMPLIFIER (FPA)	B		
(F) ANTENNA FEED ASSEMBLY	B		
(G) LOW NOISE AMPLIFIER (LNA)	B		
(H) DOWNCONVERTER	B		
(4) TRACKING SYSTEM			
(A) TRACKING FEED ASSEMBLY	B		
(B) SCANNER	B		
(C) TRACKING DOWNCONVERTER	B		
(D) TRACKING DEMODULATOR	B		
(E) TRACKING RECEIVER	B		
(F) ANTENNA POSITION CONTROL AND INDICATORS	B		
(G) ANTENNA DRIVE SYSTEMS	B		
(5) CONTROL AND MONITORING EQUIPMENT			
(A) SYSTEM STATUS MONITORING EQUIPMENT	B		
(B) FIBER OPTIC EQUIPMENT	B		
(C) FAULT AND SYSTEM STATUS PANELS	B		
(D) RECEIVER MONITORING EQUIPMENT	B		
(E) TX CARRIER LEVELING SYSTEMS	B		
B. OPERATIONS			
12.B.(1) CONFIGURE MULTIPLEXING EQUIPMENT	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
12.B.(2) CONFIGURE PATCH PANELS	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
12.B.(3) CONFIGURE CRYPTO EQUIPMENT	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
12.B.(4) CONFIGURE MODEMS	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
12.B.(5) CONFIGURE IF PATCH PANELS	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
12B.B.(6) CONFIGURE FREQUENCY CONVERSION EQUIPMENT	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
12.B.(7) CONFIGURE RF UPLINK EQUIPMENT	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
12.B.(8) CONFIGURE RF DOWNLINK EQUIPMENT	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
12.B.(9) PERFORM ACQUISITION AND TRACKING OF SATELLITES	2b		NONE
J.I. K0278 A ALIGN DOWN CONVERTER COMPONENTS FOR REQUIRED OUTPUT LEVELS (TRA 04410)	KP		
J.I. L0403 A PERFORM PMIS ON UP CONVERTERS (TRA 04410)	KP		
J.I. K0297 A PERFORM PMIS ON DOWN CONVERTERS (TRA 04410)	KP		

SPECIALTY TRAINING STANDARD (STS) 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04410 OPERATIONALLY CHECK AN/GSC-39 ANTENNA GROUP (J.I. K0278, L0403, AND K0297)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
12.B(10) ESTABLISH COMMUNICATION LINK	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
(11) ECCM OPERATIONS			
12.B.(11)(A) UNSTRESSED	-		REVIEW
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
J.I. H0188 A SCHEDULE SATELLITE USERS (TRA 05010)	KP		
J.I. G0149 A ESTABLISH ORDERWIRE CONTACT WITH DISTANT TERMINALS (TRA 05010)	KP		
J.I. H0189 A VERIFY OPERATIONAL READINESS WITH DISTANT TERMINALS (TRA 05010)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
TRA 05010 OPERATE AN/USC-28 SATELLITE COMMUNICATIONS SET (J.I. H0188, G0149, AND H0189)	KP		
12.B.(11)(B) STRESSED	-		REVIEW
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
J.I. H0188 A SCHEDULE SATELLITE USERS (TRA 05010)	KP		
J.I. G0149 A ESTABLISH ORDERWIRE CONTACT WITH DISTANT TERMINALS (TRA 05010)	KP		
J.I. H0189 A VERIFY OPERATIONAL READINESS WITH DISTANT TERMINALS (TRA 05010)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
TRA 05010 OPERATE AN/USC-28 SATELLITE COMMUNICATIONS SET (J.I. H0188, G0149, AND H0189)	KP		
(12) PERFORM C/KT MEASUREMENT			
12.B.(12)(A) MODULATED	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
12.B.(12)(B) UNMODULATED	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
12.B.(13) MONITOR CIRCUIT AND LINK QUALITY	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
12.B.(14) MAINTAIN AND UPDATE STATION LOGS	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
J.I. E0124 A PREPARE STATUS REPORTS (TRA 04730)		KP	
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
TRA 04730 PREPARE AN/GSC-49 EIGHT HOUR STATUS REPORTS (J.I. E0124)		KP	
(15) DCA REPORT REQUIREMENTS			
12.B.(15)(A) ACCOMPLISH SATCOM EQUIPMENT REPORTS (SERS)	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
J.I. E0124 A PREPARE STATUS REPORTS (TRA 04730)		KP	
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
TRA 04730 PREPARE AN/GSC-49 EIGHT HOUR STATUS REPORTS (J.I. E0124)		KP	
12.B.(15)(B) ACCOMPLISH HAZCON REPORTS	2b		NONE
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
12.B.(15)(C) VOICE AND DATA ORDERWIRE	-		REVIEW
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
12.B.(16) OPERATE STANDBY POWER	-		REVIEW
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
12.B.(17) EMERGENCY SHUTOFF	A		REVIEW
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04670)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 04670 OPERATIONALLY CHECK AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0162)	KP		
C. MAINTENANCE			
(1) PERFORM SCHEDULED PREVENTIVE MAINTENANCE			
12.C.(1) (A) CSS EQUIPMENT	-		REVIEW
J.I. Q0652 K ISOLATE MALFUNCTIONS TO CRYPTO EQUIPMENT (TRA 04030)	K	P	
J.I. Q0664 A PERFORM PMIS ON CESIUM BEAM FREQUENCY STANDARDS (TRA 04110)	K	P	
J.I. G0164 A PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO REDUNDANT EQUIPMENT (TRA 04140)	KP		
J.I. Q0663 A PERFORM PMIS ON AUTOMATIC FAULT SENSING AND SWITCHING NETWORKS (TRA 04140)	KP		
J.I. Q0672 A PERFORM PMIS ON MANUAL TRANSFER UNITS OR SWITCHING PANELS (TRA 04140)	KP		
J.I. M0502 A PERFORM PMIS ON TIME DEVISION MULTIPLEXERS (TRA 04250)		KP	
J.I. J0253 A PERFORM PMIS ON PARABOLIC ANTENNAS (TRA 04660)	KP		
J.I. L0395 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON AIR COOLING SYSTEMS (TRA 04660)	KP		
J.I. Q0666 A PERFORM PMIS ON DISTRIBUTION AMPLIFIERS (TRA 04660)	KP		
J.I. O0546 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON BPSK MODEMS (TRA 04930)		KP	
J.I. N0513 A PERFORM NETWORK CONTROL (NCT) OPERATIONS (TRA 04980)	K	P	
J.I. N0514 A PERFORM NETWORK OPERATIONS (NT) (TRA 04980)	K	P	
J.I. N0515 A PERFORM OPERATOR MAINTENANCE ON SPREAD SPECTRUM SYSTEMS (TRA 04980)	K	P	
TRA 04030 INSPECT CV-3034 CONVERTER (J.I. Q0652)	K	P	
TRA 04110 INSPECT AN/FSC-78 SIGNAL GENERATOR GROUP (J.I. Q0664)	K	P	
TRA 04140 INSPECT AN/FSC-78 (V) MONITOR AND SWITCHING FUNCTION (J.I. G0164, Q0663, AND Q0672)	KP		
TRA 04250 INSPECT AN/GSC-24(V) DIGITAL MULTIPLEXER (J.I. M0502)		KP	
TRA 04660 INSPECT AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. J0253, L0395, Q0666)	KP		
TRA 04930 INSPECT OM73(V)G MODEM GROUP (J.I. O0546)		KP	
TRA 04980 INSPECT AN/USC-28 SATELLITE COMMUNICATIONS SET (J.I. N0513, N0514, N0515)	K	P	
12.C.(1) (B) RSS EQUIPMENT	-		REVIEW
J.I. Q0664 A PERFORM PMIS ON CESIUM BEAM FREQUENCY STANDARDS (TRA 00060)	K	P	
J.I. G0164 A PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO REDUNDANT EQUIPMENT (TRA 04090)	KP		
J.I. Q0663 A PERFORM PMIS ON AUTOMATIC FAULT SENSING AND SWITCHING NETWORKS (TRA 04090)	KP		
J.I. Q0672 A PERFORM PMIS ON MANUAL TRANSFER UNITS OR SWITCHING PANELS (TRA 04090)	KP		
J.I. J0253 A PERFORM PMIS ON PARABOLIC ANTENNAS (TRA 04660)	KP		
J.I. L0395 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON AIR COOLING SYSTEMS (TRA 04660)	KP		
J.I. Q0666 A PERFORM PMIS ON DISTRIBUTION AMPLIFIERS (TRA 04660)	KP		
TRA 04110 INSPECT AN/FSC-78 SIGNAL GENERATOR GROUP (J.I. Q0664)	K	P	
TRA 04140 INSPECT AN/FSC-78 (V) MONITOR AND SWITCHING FUNCTION (J.I. G0164, Q0663, AND Q0672)	KP		
TRA 04660 INSPECT AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. J0253, L0395, Q0666)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
12.C.(2) ALIGN CSS EQUIPMENT	2b		NONE
J.I. Q0608 A ALIGN ANALOG-TO-DIGITAL CONVERTER COMPONENTS (TRA 04000)	K	P	
J.I. G0164 A PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO REDUNDANT EQUIPMENT (TRA 04090)	KP		
J.I. Q0663 A PERFORM PMIS ON AUTOMATIC FAULT SENSING AND SWITCHING NETWORKS (TRA 04090)	KP		
J.I. Q0672 A PERFORM PMIS ON MANUAL TRANSFER UNITS OR SWITCHING PANELS (TRA 04090)	KP		
J.I. M0457 A ALIGN TIME DIVISION MULTIPLEXERS (TRA 04270)		KP	
J.I. J0253 A PERFORM PMIS ON PARABOLIC ANTENNAS (TRA 04660)	KP		
J.I. L0395 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON AIR COOLING SYSTEMS (TRA 04660)	KP		
J.I. Q0666 A PERFORM PMIS ON DISTRIBUTION AMPLIFIERS (TRA 04660)	KP		
J.I. G0149 A ESTABLISH ORDERWIRE CONTACT WITH DISTANT TERMINALS (TRA 05000)	KP		
J.I. H0189 A VERIFY OPERATIONAL READINESS WITH DISTANT TERMINALS (TRA 05000)	KP		
TRA 04050 ALIGN/ADJUST CV-3034 CONVERTER (J.I. Q0608)	K	P	
TRA 04140 INSPECT AN/FSC-78 (V) MONITOR AND SWITCHING FUNCTION (J.I. G0164, Q0663, AND Q0672)	KP		
TRA 04270 ALIGN OR ADJUST DCSS AN/GSC-24(V) DIGITAL MULTIPLEXER (J.I. M0457		KP	
TRA 04660 INSPECT AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. J0253, L0395, Q0666)	KP		
TRA 05000 ALIGN OR ADJUST AN/USC-28 SATELLITE COMMUNICATIONS SET (J.I. G0149 AND J0189)	KP		
12.C.(3) ALIGN RSS EQUIPMENT	2b		NONE
J.I. Q0605 A ADJUST CESIUM BEAM FREQUENCY STANDARDS (TRA 04130)	K	P	
J.I. Q0616 A ALIGN FREQUENCY SYNTHESIZER COMPONENTS (TRA 04130)	K	P	
J.I. G0164 A PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO REDUNDANT EQUIPMENT (TRA 04090)	KP		
J.I. Q0663 A PERFORM PMIS ON AUTOMATIC FAULT SENSING AND SWITCHING NETWORKS (TRA 04090)	KP		
J.I. Q0672 A PERFORM PMIS ON MANUAL TRANSFER UNITS OR SWITCHING PANELS (TRA 04090)	KP		
J.I. L0316 A ALIGN FORWARD POWER MONITORS (TRA 04160)		KP	
J.I. K0282 A ALIGN RECEIVER GAIN MONITOR UNITS FOR REQUIRED OUTPUT LEVELS (TRA 04170)	K	P	
J.I. L0321 A ALIGN TRANSMIT POWER MONITORS (TRA 04180)		KP	
J.I. P0564 A ALIGN TRACKING SERVO CONTROL COMPONENTS (TRA 04290)	K	P	
J.I. J0253 A PERFORM PMIS ON PARABOLIC ANTENNAS (TRA 04660)	KP		
J.I. L0395 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON AIR COOLING SYSTEMS (TRA 04660)	KP		
J.I. Q0666 A PERFORM PMIS ON DISTRIBUTION AMPLIFIERS (TRA 04660)	KP		
J.I. L0319 A ALIGN SUPER HIGH FREQUENCY (SHF) TRANSMITTERS (TRA 04690)	K	P	
J.I. L0317 A ALIGN HIGH VOLTAGE POWER SUPPLY COMPONENTS (TRA 04700)	K	P	
J.I. Q0617 A ALIGN GENERAL PURPOSE POWER SUPPLY COMPONENTS (TRA 04700)	K	P	
TRA 04130 ALIGN OR ADJUST AN/FSC-78 SIGNAL GENERATOR GROUP (J.I. Q0605 AND Q0616)	K	P	
TRA 04140 INSPECT AN/FSC-78 (V) MONITOR AND SWITCHING FUNCTION (J.I. G0164, Q0663, AND Q0672)	KP		
TRA 04160 ALIGN/ADJUST AN/FSC-78 (V) CARRIER LEVEL CONTROL/DETECTOR (J.I. L0316)		KP	
TRA 04170 ALIGN/ADJUST AN/FSC-78 RECEIVER GAIN MONITOR UNIT (J.I. K0282)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 04180 ALIGN/ADJUST AN/FSC-78 TRANSMITTER POWER MONITOR METER (J.I. L0321)		KP	
TRA 04290 ADJUST AN/GSC-39(V) ANTENNA GROUP OE-222/C SERVO AMPLIFIER CONTROL CARDS BIAS (J.I. P0564)	K	P	
TRA 04660 INSPECT AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. J0253, L0395, Q0666)	KP		
TRA 04690 TUNE AN/GSC-49 KLYSTRON CAVITY (J.I. L0319)	K	P	
TRA 04700 TUNE AN/GSC-49 POWER SUPPLIES (J.I. L0317 AND Q0617)	K	P	
12.C.(4) CHECK CSS SYSTEM PERFORMANCE	2b		NONE
J.I. G0164 A PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO REDUNDANT EQUIPMENT (TRA 04090)	KP		
J.I. Q0663 A PERFORM PMIS ON AUTOMATIC FAULT SENSING AND SWITCHING NETWORKS (TRA 04090)	KP		
J.I. Q0672 A PERFORM PMIS ON MANUAL TRANSFER UNITS OR SWITCHING PANELS (TRA 04090)	KP		
J.I. J0253 A PERFORM PMIS ON PARABOLIC ANTENNAS (TRA 04660)	KP		
J.I. L0395 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON AIR COOLING SYSTEMS (TRA 04660)	KP		
J.I. Q0666 A PERFORM PMIS ON DISTRIBUTION AMPLIFIERS (TRA 04660)	KP		
TRA 04140 INSPECT AN/FSC-78 (V) MONITOR AND SWITCHING FUNCTION (J.I. G0164, Q0663, AND Q0672)	KP		
TRA 04660 INSPECT AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. J0253, L0395, Q0666)	KP		
12.C.(5) CHECK RSS SYSTEM PERFORMANCE	2b		NONE
J.I. G0164 A PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO REDUNDANT EQUIPMENT (TRA 04090)	KP		
J.I. Q0663 A PERFORM PMIS ON AUTOMATIC FAULT SENSING AND SWITCHING NETWORKS (TRA 04090)	KP		
J.I. Q0672 A PERFORM PMIS ON MANUAL TRANSFER UNITS OR SWITCHING PANELS (TRA 04090)	KP		
J.I. J0253 A PERFORM PMIS ON PARABOLIC ANTENNAS (TRA 04660)	KP		
J.I. L0395 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON AIR COOLING SYSTEMS (TRA 04660)	KP		
J.I. Q0666 A PERFORM PMIS ON DISTRIBUTION AMPLIFIERS (TRA 04660)	KP		
TRA 04140 INSPECT AN/FSC-78 (V) MONITOR AND SWITCHING FUNCTION (J.I. G0164, Q0663, AND Q0672)	KP		
TRA 04660 INSPECT AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. J0253, L0395, Q0666)	KP		
12.C.(6) ACCOMPLISH CORROSION CONTROL	-		REVIEW
J.I. G0164 A PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO REDUNDANT EQUIPMENT (TRA 4090)	KP		
J.I. Q0663 A PERFORM PMIS ON AUTOMATIC FAULT SENSING AND SWITCHING NETWORKS (TRA 4090)	KP		
J.I. Q0672 A PERFORM PMIS ON MANUAL TRANSFER UNITS OR SWITCHING PANELS (TRA 4090)	KP		
J.I. J0253 A PERFORM PMIS ON PARABOLIC ANTENNAS (TRA 4660)	KP		
J.I. L0395 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON AIR COOLING SYSTEMS (TRA 4660)	KP		
J.I. Q0666 A PERFORM PMIS ON DISTRIBUTION AMPLIFIERS (TRA 4660)	K	P	
TRA 04140 INSPECT AN/FSC-78 (V) MONITOR AND SWITCHING FUNCTION (J.I. G0164, Q0663, AND Q0672)	KP		
TRA 04660 INSPECT AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. J0253, L0395, Q0666)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
D. TROUBLESHOOTING AND REPAIR			
12.D.(1) ISOLATE FAULTY EQUIPMENT AND SWITCH TO STANDBY EQUIPMENT	2b		NONE
J.I. Q0625 K ISOLATE MALFUNCTIONS IN ANALOG-TO-DIGITAL CONVERTERS (TRA 04040)	K	P	
J.I. Q0648 K ISOLATE MALFUNCTIONS TO ANALOG-TO-DIGITAL CONVERTERS (TRA 04040)	K	P	
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04080)	KP		
J.I. G0168 A READ METERS OR PERFORM BITE TESTS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY (TRA 04080)	KP		
J.I. K0285 K ISOLATE MALFUNCTIONS IN DOWN CONVERTERS (TRA 04090)	KP		
J.I. K0293 K ISOLATE MALFUNCTIONS TO RECEIVE IFLAS (TRA 04090)	KP		
J.I. P0574 K ISOLATE MALFUNCTIONS IN TRACKING RECEIVERS (TRA 04090)	KP		
J.I. L0333 K ISOLATE MALFUNCTIONS IN TRANSMIT GAIN, AUTOMATIC LOAD, OR AUTOMATIC LEVELING CONTROLS (TRA 04100)		KP	
J.I. L0336 K ISOLATE MALFUNCTIONS IN UPLINK WAVEGUIDE SWITCHING NETWORKS (TRA 04100)		KP	
J.I. N0508 K ISOLATE MALFUNCTIONS TO RECEIVER-TRANSMITTER (RT) SUBSYSTEMS (TRA 04100)		KP	
J.I. Q0633 K ISOLATE MALFUNCTIONS IN FREQUENCY SYNTHESIZERS (TRA 04120)	KP		
J.I. Q0650 K ISOLATE MALFUNCTIONS TO CESIUM BEAM FREQUENCY STANDARDS (TRA 04120)	KP		
J.I. P0584 K ISOLATE MALFUNCTIONS TO TRACKING DEMODULATORS (TRA 04190)	K	P	
J.I. P0585 K ISOLATE MALFUNCTIONS TO TRACKING DOWN CONVERTERS (TRA 04190)	K	P	
J.I. P0586 K ISOLATE MALFUNCTIONS TO TRACKING RECEIVERS (TRA 04190)	K	P	
TRA 04040 TROUBLESHOOT CV-3034 CONVERTER (J.I. Q0625 AND Q0648)	K	P	
TRA 04080 TROUBLESHOOT AN/FSC-78 SYSTEM (J.I. G0162 AND G0168)	KP		
TRA 04090 TROUBLESHOOT AN/FSC-78 DOWNLINK (J.I. K0285, K0293, AND P0574)	KP		
TRA 04100 TROUBLESHOOT AN/FSC-78 UPLINK (J.I. L0333, L0336, AND N0508)		KP	
TRA 04120 TROUBLESHOOT AN/FSC-78 SIGNAL GENERATOR GROUP (J.I. Q0633 AND Q0650)	KP		
TRA 04190 TROUBLESHOOT AN/FSC-78 TRACKING FUNCTION (J.I. P0584, P0585, AND P0586)	K	P	
12.D.(2) TROUBLESHOOT FAULTY EQUIPMENT TO ISOLATE MALFUNCTIONS TO SPECIFIC MODULE OR CIRCUIT CARD	2b		NONE
J.I. Q0625 K ISOLATE MALFUNCTIONS IN ANALOG-TO-DIGITAL CONVERTERS (TRA 4040)	K	P	
J.I. Q0648 K ISOLATE MALFUNCTIONS TO ANALOG-TO-DIGITAL CONVERTERS (TRA 4040)	K	P	
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 4080)	KP		
J.I. G0168 A READ METERS OR PERFORM BITE TESTS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY (TRA 04080)	KP		
J.I. Q0633 K ISOLATE MALFUNCTIONS IN FREQUENCY SYNTHESIZERS (TRA 04120)	KP		
J.I. Q0650 K ISOLATE MALFUNCTIONS TO CESIUM BEAM FREQUENCY STANDARDS (TRA 04120)	KP		
J.I. P0584 K ISOLATE MALFUNCTIONS TO TRACKING DEMODULATORS (TRA 04190)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
J.I. P0585 K ISOLATE MALFUNCTIONS TO TRACKING DOWN CONVERTERS (TRA 04190)	K	P	
J.I. P0586 K ISOLATE MALFUNCTIONS TO TRACKING RECEIVERS (TRA 04190)	K	P	
J.I. K0285 K ISOLATE MALFUNCTIONS IN DOWN CONVERTERS (TRA 04390)	KP		
J.I. I0201 K ISOLATE MALFUNCTIONS IN FREQUENCY CONVERTERS (TRA 04390)	KP		
J.I. K0284 K ISOLATE MALFUNCTIONS IN CRYOGENIC REFRIGERATION SYSTEMS (TRA 04400)	K	P	
J.I. J0237 K ISOLATE MALFUNCTIONS IN FEEDHORN ASSEMBLIES (TRA 04400)	K	P	
J.I. L0329 K ISOLATE MALFUNCTIONS IN HIGH VOLTAGE POWER SUPPLIES (TRA 04710)	KP		
J.I. I0199 A INSTALL OR RFMOVE MOUNTING HARDWARE (TRA 04720)	K	P	
J.I. R0710 A INSTALL OR REMOVE MOBILE COMMUNICATION EQUIPMENT (TRA 04720)	K	P	
J.I. L0351 K ISOLATE MALFUNCTIONS TO LINE MODEM UNITS (LMU) (TRA 04940)	K	P	
J.I. O0526 K ISOLATE MALFUNCTIONS TO BPSK MODEMS (TRA 04940)	K	P	
J.I. O0532 K ISOLATE MALFUNCTIONS TO QPSK MODEMS (TRA 04940)	K	P	
J.I. N0508 K ISOLATE MALFUNCTIONS TO RECEIVER-TRANSMITTER (RT) SUBSYSTEMS (TRA 04990)	KP		
J.I. N0510 K ISOLATE MALFUNCTIONS TO SPREAD SPECTRUM SYSTEM POWER SUPPLY UNITS (TRA 04990)	KP		
J.I. Q0633 K ISOLATE MALFUNCTIONS IN FREQUENCY SYNTHESIZERS (TRA 04990)	KP		
TRA 04040 TROUBLESHOOT CV-3034 CONVERTER (J.I. Q0625 AND Q0648)	K	P	
TRA 04080 TROUBLESHOOT AN/FSC-78 SYSTEM (J.I. G0162 AND G0168)	KP		
TRA 04120 TROUBLESHOOT AN/FSC-78 SIGNAL GENERATOR GROUP (J.I. Q0633 AND Q0650)	KP		
TRA 04190 TROUBLESHOOT AN/FSC-78 TRACKING FUNCTION (J.I. P0584, P0585, AND P0586)	K	P	
TRA 04390 TROUBLESHOOT AN/GSC-39(V) ELECTRONIC CONVERTER CV-3655/C AND CV-3654 (MINI-CONVERTER) (J.I. I0201 AND K0285)	KP		
TRA 04400 TROUBLESHOOT AN/GSC-39(V) ANTENNA GROUP DE-222G (J.I. J0237 AND K0284)	K	P	
TRA 04710 TROUBLESHOOT AN/GSC-49 HIGH VOLTAGE POWER SUPPLY (J.I. L0329)	K	P	
TRA 04720 REMOVE AND REPLACE AN/GSC-39 CIRCUIT CARDS (J.I. I0299 AND R0710)	K	P	
TRA 04940 TROUBLESHOOT OM73(V)G MODEM GROUP (J.I. L0351, O0526, AND O0532)	K	P	
TRA 04990 TROUBLESHOOT AN/USC-28 SATELLITE COMMUNICATIONS SET (J.I. N0508, N0510, AND Q0633)	KP		
12.D.(3) REPLACE FAULTY MODULE OR CIRCUIT CARD	-		REVIEW
J.I. Q0625 K ISOLATE MALFUNCTIONS IN ANALOG-TO-DIGITAL CONVERTERS (TRA 04040)	K	P	
J.I. Q0648 K ISOLATE MALFUNCTIONS TO ANALOG-TO-DIGITAL CONVERTERS (TRA 04040)	K	P	
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04080)	KP		
J.I. G0168 A READ METERS OR PERFORM BITE TESTS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY (TRA 04080)	KP		
J.I. Q0633 K ISOLATE MALFUNCTIONS IN FREQUENCY SYNTHESIZERS (TRA 04120)	KP		
J.I. Q0650 K ISOLATE MALFUNCTIONS TO CESIUM BEAM FREQUENCY STANDARDS (TRA 04120)	KP		
J.I. P0584 K ISOLATE MALFUNCTIONS TO TRACKING DEMODULATORS (TRA 04190)	K	P	
J.I. P0585 K ISOLATE MALFUNCTIONS TO TRACKING DOWN CONVERTERS (TRA 04190)	K	P	
J.I. P0586 K ISOLATE MALFUNCTIONS TO TRACKING RECEIVERS (TRA 04190)	K	P	
J.I. K0304 A REMOVE OR REPLACE DOWN CONVERTERS (TRA 04380)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
J.I. I0217 A REMOVE OR REPLACE FREQUENCY CONVERTERS (TRA 04380)	KP		
TRA 04040 TROUBLESHOOT CV-3034 CONVERTER (J.I. Q0625 AND Q0648)	K	P	
TRA 04080 TROUBLESHOOT AN/FSC-78 SYSTEM (J.I. G0162 AND G0168)	KP		
TRA 04120 TROUBLESHOOT AN/FSC-78 SIGNAL GENERATOR GROUP (J.I. Q0633 AND Q0650)	KP		
TRA 04190 TROUBLESHOOT AN/FSC-78 TRACKING FUNCTION (J.I. P0584, P0585, AND P0586)	K	P	
TRA 04380 REMOVE AND REPLACE AN/GSC-39(V) ELECTRONIC FREQUENCY CONVERTER CV-3655/G (MINI-CONVERTER MODULES (J.I. I0217 AND K0304)	KP		
12.D.(4) TROUBLESHOOT FAULTY MODULE OR CIRCUIT CARD TO ISOLATE MALFUNCTIONS TO SPECIFIC CIRCUIT OR COMPONENT	-		REVIEW
J.I. Q0625 K ISOLATE MALFUNCTIONS IN ANALOG-TO-DIGITAL CONVERTERS (TRA 04040)	K	P	
J.I. Q0648 K ISOLATE MALFUNCTIONS TO ANALOG-TO-DIGITAL CONVERTERS (TRA 04040)	K	P	
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04080)	KP		
J.I. G0168 A READ METERS OR PERFORM BITE TESTS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY (TRA 04080)	KP		
J.I. Q0633 K ISOLATE MALFUNCTIONS IN FREQUENCY SYNTHESIZERS (TRA 04120)	KP		
J.I. Q0650 K ISOLATE MALFUNCTIONS TO CESIUM BEAM FREQUENCY STANDARDS (TRA 04120)	KP		
J.I. P0584 K ISOLATE MALFUNCTIONS TO TRACKING DEMODULATORS (TRA 04190)	K	P	
J.I. P0585 K ISOLATE MALFUNCTIONS TO TRACKING DOWN CONVERTERS (TRA 04190)	K	P	
J.I. P0586 K ISOLATE MALFUNCTIONS TO TRACKING RECEIVERS (TRA 04190)	K	P	
TRA 04040 TROUBLESHOOT CV-3034 CONVERTER (J.I. Q0625 AND Q0648)	K	P	
TRA 04080 TROUBLESHOOT AN/FSC-78 SYSTEM (J.I. G0162 AND G0168)	KP		
TRA 04120 TROUBLESHOOT AN/FSC-73 SIGNAL GENERATOR GROUP (J.I. Q0633 AND Q0650)	KP		
TRA 04190 TROUBLESHOOT AN/FSC-78 TRACKING FUNCTION (J.I. P0584, P0585, AND P0586)	K	P	
12.D.(5) REPLACE FAULTY CIRCUIT OR COMPONENT	-		REVIEW
J.I. Q0625 K ISOLATE MALFUNCTIONS IN ANALOG-TO-DIGITAL CONVERTERS (TRA 04040)	K	P	
J.I. Q0648 K ISOLATE MALFUNCTIONS TO ANALOG-TO-DIGITAL CONVERTERS (TRA 04040)	K	P	
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04080)	KP		
J.I. G0168 A READ METERS OR PERFORM BITE TESTS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY (TRA 04080)	KP		
J.I. Q0633 K ISOLATE MALFUNCTIONS IN FREQUENCY SYNTHESIZERS (TRA 04120)	KP		
J.I. Q0650 K ISOLATE MALFUNCTIONS TO CESIUM BEAM FREQUENCY STANDARDS (TRA 04120)	KP		
J.I. P0584 K ISOLATE MALFUNCTIONS TO TRACKING DEMODULATORS (TRA 04190)	K	P	
J.I. P0585 K ISOLATE MALFUNCTIONS TO TRACKING DOWN CONVERTERS (TRA 04190)	K	P	
J.I. P0586 K ISOLATE MALFUNCTIONS TO TRACKING RECEIVERS (TRA 04190)	K	P	
J.I. I0220 A REMOVE OR REPLACE MECHANICAL SUBASSEMBLIES (TRA 04360)	KP		
TRA 04040 TROUBLESHOOT CV-3034 CONVERTER (J.I. Q0625 AND Q0648)	K	P	
TRA 04080 TROUBLESHOOT AN/FSC-78 SYSTEM (J.I. G0162 AND G0168)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 04120 TROUBLESHOOT AN/FSC-78 SIGNAL GENERATOR GROUP (J.I. Q0633 AND Q0650)	KP		
TRA 04190 TROUBLESHOOT AN/FSC-78 TRACKING FUNCTION (J.I. P0584, P0585, AND P0586)	K	P	
TRA 04360 REMOVE AND REPLACE AN/GSC-39(V) ANTENNA GROUP DE-222/G HD-955B/GR HEAT EXCHANGER MOTOR AND FAN MOTOR (J.I. I0220)	KP		
13. AIR FORCE SATELLITE COMMUNICATIONS SYSTEM (AFSATCOM)			
A. SYSTEMS PRINCIPLES			
(1) TERMINALS			
13.A.(1)(A) COMMAND POST	A		NONE
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
13.A.(1)(B) FORCE TERMINALS	A		NONE
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
13.A.(2) OPERATIONAL CONTROL	A		NONE
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
(3) INPUT/OUTPUT (I/O) EQUIPMENT GROUP			
13.A.(3)(A) AUTOMATIC SEND RECEIVE (ASR) DEVICES	B		REVIEW
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
13.A.(3)(B) HIGH SPEED PRINTER	B		REVIEW
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
13.A.(3)(C) SELECTIVE MESSAGE ROUTING PRINTER	B		REVIEW
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
13.A.(4) MESSAGE PROCESSING UNIT (MPU) GROUP	B		REVIEW
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
(5) RECEIVER-TRANSMITTER GROUP			
(A) MODEMS			
13.A.(5)(A) 1. NARROWBAND	B		REVIEW
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
13.A.(5)(A) 2. WIDEBAND	B		REVIEW
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
13.A.(5)(A) 3. DUAL	B		REVIEW
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
13.A.(5)(B) RECEIVER-TRANSMITTER (RT)	B		REVIEW
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
13.A.(6) RF EQUIPMENT GROUP	B		REVIEW
J.I. Q0643 K ISOLATE MALFUNCTIONS IN RF DISTRIBUTION AMPLIFIERS (TRA 04450)		KP	
J.I. Q0634 K ISOLATE MALFUNCTIONS IN GENERAL PURPOSE POWER SUPPLIES (TRA 04460)	K	P	
J.I. K0292 K ISOLATE MALFUNCTIONS TO EMERGENCY ACTION MESSAGE (EAM) ALARMS (TRA 04470)		KP	
J.I. K0294 K ISOLATE MALFUNCTIONS WITHIN EAM EQUIPMENT (TRA 04470)		KP	
J.I. 00527 K ISOLATE MALFUNCTIONS TO DUAL MODEM CONTROLS (TRA 04480)	K	P	
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04450 TROUBLESHOOT AN/GSC-42 RF AMPLIFIER (J.I. Q0643)		KP	
TRA 04460 TROUBLESHOOT AN/GSC-42 CONTROL POWER SUPPLY (J.I. Q0634)	K	P	
TRA 04470 TROUBLESHOOT AN/GSC-42 EMERGENCY ACTION MESSAGE ALARM (J.I. K0292 AND K0294)		KP	
TRA 04480 TROUBLESHOOT AN/GSC-42 CONTROL-INDICATOR (J.I. 00527)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
13.A.(7) TEST AND MONITOR GROUP	B		REVIEW
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
13.A.(8) SUPPORT EQUIPMENT GROUP	B		REVIEW
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
13.A.(8)(A) SYNCHRONIZERS	B		REVIEW
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
13.A.(8)(B) COMSEC SWITCHING UNITS	B		REVIEW
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
13.A.(9) REMOTE SUBSYSTEM GROUP	B		REVIEW
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
13.A.(10) AUTOMATIC MONITORING SUBSYSTEM GROUP	B		REVIEW
J.I. G0159 A PERFORM EMERGENCY MESSAGE PROCESSOR UNIT (MPU) BY-PASSES (DEGRADATION PROCEDURES)(TRA 04600)	K	P	
J.I. H0184 A PERFORM COMMUNICATIONS SUPERVISORY COMMANDS (TRA 04600)	K	P	
J.I. L0388 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR CONTROLS (TRA 04600)	K	P	
TRA 04600 OPERATE THE AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. G0159, H0184, AND L0388)	K	P	
B. INTERMEDIATE MAINTENANCE PRINCIPLES			
13.B.(1) I/O EQUIPMENT GROUP	A		REVIEW
J.I. L0317 A ALIGN HIGH VOLTAGE POWER SUPPLY COMPONENTS (TRA 04560)	K	P	
J.I. Q0612 A ALIGN BUILT-IN TEST EQUIPMENT (BITE) COMPONENTS (TRA 04580)		KP	
J.I. Q0671 A PERFORM PMIS ON LOW SPEED PRINTERS (TRA 04620)	K	P	
J.I. Q0655 K ISOLATE MALFUNCTIONS TO HIGH SPEED PRINTERS (TRA 04630)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
J.I. Q0656 K ISOLATE MALFUNCTIONS TO INTERCONNECT CABLES AND CHASSIS WIRING (TRA 04630)	K	P	
J.I. N0508 K ISOLATE MALFUNCTIONS TO RECEIVER-TRANSMITTER (RT) SUBSYSTEMS (TRA 04640)		KP	
J.I. N0509 K ISOLATE MALFUNCTIONS TO RT UNITS (TRA 04640)		KP	
J.I. N0512 K ISOLATE MALFUNCTIONS WITHIN RT SUBSYSTEMS (TRA 04640)		KP	
J.I. M0469 K ISOLATE MALFUNCTIONS IN FREQUENCY SHIFT KEYERS (TRA 04650)		KP	
TRA 04560 ALIGN/ADJUST AN/GSC-42 VOLTAGE POWER SUPPLY (J.I. L0317)	K	P	
TRA 04580 ALIGN AND ADJUST AN/GSC-44 CONSOLIDATED GROUND TERMINAL TEST TRANSLATOR (J.I. Q0612)		KP	
TRA 04620 BENCH CHECK LOW-SPEED TELEPRINTER (AN/UGC-120) (J.I. Q0671)	K	P	
TRA 04630 BENCH CHECK HIGH-SPEED PRINTER (J.I. Q0655 AND Q0656)	K	P	
TRA 04640 BENCH CHECK AN/GSC-44 RECEIVER/TRANSMITTER (J.I. N0508, N0509, N0512)		KP	
TRA 04650 BENCH CHECK MODEM (J.I. M0469)		KP	
13.B.(2) MPU GROUP	A		REVIEW
J.I. L0317 A ALIGN HIGH VOLTAGE POWER SUPPLY COMPONENTS (TRA 04560)	K	P	
J.I. Q0612 A ALIGN BUILT-IN TEST EQUIPMENT (BITE) COMPONENTS (TRA 04580)		KP	
J.I. Q0671 A PERFORM PMIS ON LOW SPEED PRINTERS (TRA 04620)	K	P	
J.I. Q0655 K ISOLATE MALFUNCTIONS TO HIGH SPEED PRINTERS (TRA 04630)	K	P	
J.I. Q0656 K ISOLATE MALFUNCTIONS TO INTERCONNECT CABLES AND CHASSIS WIRING (TRA 04630)	K	P	
J.I. N0508 K ISOLATE MALFUNCTIONS TO RECEIVER-TRANSMITTER (RT) SUBSYSTEMS (TRA 04640)		KP	
J.I. N0509 K ISOLATE MALFUNCTIONS TO RT UNITS (TRA 04640)		KP	
J.I. N0512 K ISOLATE MALFUNCTIONS WITHIN RT SUBSYSTEMS (TRA 04640)		KP	
J.I. M0469 K ISOLATE MALFUNCTIONS IN FREQUENCY SHIFT KEYERS (TRA 04650)		KP	
TRA 04560 ALIGN/ADJUST AN/GSC-42 VOLTAGE POWER SUPPLY (J.I. L0317)	K	P	
TRA 04580 ALIGN AND ADJUST AN/GSC-44 CONSOLIDATED GROUND TERMINAL TEST TRANSLATOR (J.I. Q0612)		KP	
TRA 04620 BENCH CHECK LOW-SPEED TELEPRINTER (AN/UGC-120) (J.I. Q0671)	K	P	
TRA 04630 BENCH CHECK HIGH-SPEED PRINTER (J.I. Q0655 AND Q0656)	K	P	
TRA 04640 BENCH CHECK AN/GSC-44 RECEIVER/TRANSMITTER (J.I. N0508, N0509, N0512)		KP	
TRA 04650 BENCH CHECK MODEM (J.I. M0469)		KP	
13.B.(3) RT GROUP	A		REVIEW
J.I. L0317 A ALIGN HIGH VOLTAGE POWER SUPPLY COMPONENTS (TRA 04560)	K	P	
J.I. Q0612 A ALIGN BUILT-IN TEST EQUIPMENT (BITE) COMPONENTS (TRA 04580)		KP	
J.I. Q0671 A PERFORM PMIS ON LOW SPEED PRINTERS (TRA 04620)	K	P	
J.I. Q0655 K ISOLATE MALFUNCTIONS TO HIGH SPEED PRINTERS (TRA 04630)	K	P	
J.I. Q0656 K ISOLATE MALFUNCTIONS TO INTERCONNECT CABLES AND CHASSIS WIRING (TRA 04630)	K	P	
J.I. N0508 K ISOLATE MALFUNCTIONS TO RECEIVER-TRANSMITTER (RT) SUBSYSTEMS (TRA 04640)		KP	
J.I. N0509 K ISOLATE MALFUNCTIONS TO RT UNITS (TRA 04640)		KP	
J.I. N0512 K ISOLATE MALFUNCTIONS WITHIN RT SUBSYSTEMS (TRA 04640)		KP	
J.I. M0469 K ISOLATE MALFUNCTIONS IN FREQUENCY SHIFT KEYERS (TRA 04650)		KP	
TRA 04560 ALIGN/ADJUST AN/GSC-42 VOLTAGE POWER SUPPLY (J.I. L0317)	K	P	
TRA 04580 ALIGN AND ADJUST AN/GSC-44 CONSOLIDATED GROUND TERMINAL TEST TRANSLATOR (J.I. Q0612)		KP	
TRA 04620 BENCH CHECK LOW-SPEED TELEPRINTER (AN/UGC-120) (J.I. Q0671)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 04630 BENCH CHECK HIGH-SPEED PRINTER (J.I. Q0655 AND Q0656)	K	P	
TRA 04640 BENCH CHECK AN/GSC-44 RECEIVER/TRANSMITTER (J.I. N0508, N0509, N0512)		KP	
TRA 04650 BENCH CHECK MODEM (J.I. M0469)		KP	
13.B.(4) RF EQUIPMENT GROUP	A		REVIEW
J.I. L0317 A ALIGN HIGH VOLTAGE POWER SUPPLY COMPONENTS (TRA 04560)	K	P	
J.I. Q0612 A ALIGN BUILT-IN TEST EQUIPMENT (BITE) COMPONENTS (TRA 04580)		KP	
J.I. Q0671 A PERFORM PMIS ON LOW SPEED PRINTERS (TRA 04620)	K	P	
J.I. Q0655 K ISOLATE MALFUNCTIONS TO HIGH SPEED PRINTERS (TRA 04630)	K	P	
J.I. Q0656 K ISOLATE MALFUNCTIONS TO INTERCONNECT CABLES AND CHASSIS WIRING (TRA 04630)	K	P	
J.I. N0508 K ISOLATE MALFUNCTIONS TO RECEIVER-TRANSMITTER (RT) SUBSYSTEMS (TRA 04640)		KP	
J.I. N0509 K ISOLATE MALFUNCTIONS TO RT UNITS (TRA 04640)		KP	
J.I. N0512 K ISOLATE MALFUNCTIONS WITHIN RT SUBSYSTEMS (TRA 04640)		KP	
J.I. M0469 K ISOLATE MALFUNCTIONS IN FREQUENCY SHIFT KEYERS (TRA 04650)		KP	
TRA 04560 ALIGN/ADJUST AN/GSC-42 VOLTAGE POWER SUPPLY (J.I. L0317)	K	P	
TRA 04580 ALIGN AND ADJUST AN/GSC-44 CONSOLIDATED GROUND TERMINAL TEST TRANSLATOR (J.I. Q0612)		KP	
TRA 04620 BENCH CHECK LOW-SPEED TELEPRINTER (AN/UGC-120) (J.I. Q0671)	K	P	
TRA 04630 BENCH CHECK HIGH-SPEED PRINTER (J.I. Q0655 AND Q0656)	K	P	
TRA 04640 BENCH CHECK AN/GSC-44 RECEIVER/TRANSMITTER (J.I. N0508, N0509, N0512)		KP	
TRA 04650 BENCH CHECK MODEM (J.I. M0469)		KP	
13.B.(5) REMOTE SUBSYSTEM GROUP	A		REVIEW
J.I. L0317 A ALIGN HIGH VOLTAGE POWER SUPPLY COMPONENTS (TRA 04560)	K	P	
J.I. Q0612 A ALIGN BUILT-IN TEST EQUIPMENT (BITE) COMPONENTS (TRA 04580)		KP	
J.I. Q0671 A PERFORM PMIS ON LOW SPEED PRINTERS (TRA 04620)	K	P	
J.I. Q0655 K ISOLATE MALFUNCTIONS TO HIGH SPEED PRINTERS (TRA 04630)	K	P	
J.I. Q0656 K ISOLATE MALFUNCTIONS TO INTERCONNECT CABLES AND CHASSIS WIRING (TRA 04630)	K	P	
J.I. N0508 K ISOLATE MALFUNCTIONS TO RECEIVER-TRANSMITTER (RT) SUBSYSTEMS (TRA 04640)		KP	
J.I. N0509 K ISOLATE MALFUNCTIONS TO RT UNITS (TRA 04640)		KP	
J.I. N0512 K ISOLATE MALFUNCTIONS WITHIN RT SUBSYSTEMS (TRA 04640)		KP	
J.I. M0469 K ISOLATE MALFUNCTIONS IN FREQUENCY SHIFT KEYERS (TRA 04650)		KP	
TRA 04560 ALIGN/ADJUST AN/GSC-42 VOLTAGE POWER SUPPLY (J.I. L0317)	K	P	
TRA 04580 ALIGN AND ADJUST AN/GSC-44 CONSOLIDATED GROUND TERMINAL TEST TRANSLATOR (J.I. Q0612)		KP	
TRA 04620 BENCH CHECK LOW-SPEED TELEPRINTER (AN/UGC-120) (J.I. Q0671)	K	P	
TRA 04630 BENCH CHECK HIGH-SPEED PRINTER (J.I. Q0655 AND Q0656)	K	P	
TRA 04640 BENCH CHECK AN/GSC-44 RECEIVER/TRANSMITTER (J.I. N0508, N0509, N0512)		KP	
TRA 04650 BENCH CHECK MODEM (J.I. M0469)		KP	
C. OPERATIONS			
(1) PERFORM TURN-ON AND TURN-OFF PROCEDURES OF EQUIPMENT	2b		
(2) PERFORM SYSTEM INITIALIZATION PROCEDURES	2b		
(3) PERFORM SYSTEM OPERATONAL CHECKOUT PROCEDURES	2b		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
(4) OBSERVE STATUS PANELS FOR EQUIPMENT OPERATION	2b		
(5) COMPOSE AND TRANSMIT MESSAGES USING ASR	2b		
(6) COMPOSE AND TRANSMIT COMPUTER SUPERVISORY COMMANDS USING ASR	2b		
(7) CONFIGURE CRYPTO EQUIPMENT FOR OPERATIONS	-		
(8) POSITION STATIONARY ANTENNA FOR CORRECT LOOK ANGLE	-		
(9) PERFORM EMERGENCY SHUT-OFF PROCEDURES	2b		
(10) PERFORM EMERGENCY MPU BY-PASS	B		
D. MAINTENANCE			
(1) PERFORM SCHEDULED PREVENTIVE MAINTENANCE			
13.D.(1)(A) TERMINAL EQUIPMENT	2b		NONE
J.I. J0251 A PERFORM PMIS ON HELIX ANTENNAS (TRA 04060)	K	P	
J.I. K0301 A PERFORM PMIS ON UHF RECEIVE RF AMPLIFIERS(TRA 04060)	K	P	
J.I. L0402 A PERFORM PMIS ON UHF TRANSMITTERS(TRA 04060)	K	P	
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 4430)	KP		
J.I. K0295 A PERFORM OPERATIONAL TESTS ON EAM EQUIPMENT (TRA 04430)	KP		
J.I. L0390 A PERFORM OPERATIONAL TESTS ON RECEIVER TRANSMITTER CONTROLS (TRA 04430)	KP		
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04900)	KP		
J.I. L0395 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON AIR COOLING SYSTEMS (TRA 04900)	KP		
J.I. Q0669 A PERFORM PMIS ON HIGH SPEED PRINTERS (TRA 04900)	KP		
J.I. Q0621 A ALIGN LOW SPEED PRINTERS (TRA 04920)	K	P	
J.I. M0447 A ALIGN FREQUENCY GENERATOR COMPONENTS (TRA 04920)	K	P	
J.I. G0166 A PERFORM UPLINK RF FREQUENCY AND LEVEL CHECKS (TRA 04950)	KP		
J.I. L0389 A PERFORM OPERATIONAL TESTS ON MESSAGE PROCESSOR UNITS (TRA 04950)	KP		
TRA 04060 INSPECT AN/FRC-175 GROUND SATELLITE TERMINAL (J.I. J0251, K 0301, AND L0402)	K	P	
TRA 04430 INSPECT AN/GSC-42 AIR FORCE SATELLITE COMMUNICATIONS (AFSATCOM) TERMINAL (G0162, K0295, AND L0390)	KP		
TRA 04900 INSPECT OM-7/U MONITOR SATELLITE SYSTEM GROUP (AAMS) (J.I. G0162, L0395, AND Q0669)	KP		
TRA 04920 ALIGN/ADJUST OM-70/U MONITOR SATELLITE SYSTEM GROUP (J.I. Q0621 AND M0447)	K	P	
TRA 04950 INSPECT AN/TSC-88 COMMUNICATIONS TERMINAL (AFSATCOM) (J.I. G0166 AND L0389)	KP		
13.D.(1)(B) MISSION SUPPORT EQUIPMENT	-		REVIEW
J.I. J0251 A PERFORM PMIS ON HELIX ANTENNAS (TRA 04060)	K	P	
J.I. K0301 A PERFORM PMIS ON UHF RECEIVE RF AMPLIFIERS(TRA 04060)	K	P	
J.I. L0402 A PERFORM PMIS ON UHF TRANSMITTERS(TRA 04060)	K	P	
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04900)	KP		
J.I. L0395 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON AIR COOLING SYSTEMS (TRA 04900)	KP		
J.I. Q0669 A PERFORM PMIS ON HIGH SPEED PRINTERS (TRA 04900)	KP		
J.I. Q0621 A ALIGN LOW SPEED PRINTERS (TRA 04920)	K	P	
J.I. M0447 A ALIGN FREQUENCY GENERATOR COMPONENTS (TRA 04920)	K	P	
TRA 04060 INSPECT AN/FRC-175 GROUND SATELLITE TERMINAL (J.I. J0251, K0301, AND L0402)	K	P	
TRA 04900 INSPECT OM-7/U MONITOR SATELLITE SYSTEM GROUP (AAMS) (J.I. G0162, L0395, AND Q0669)	KP		
TRA 04920 ALIGN/ADJUST OM-70/U MONITOR SATELLITE SYSTEM GROUP (J.I. Q0621 AND M0447)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
13.D.(1)(C) PECULIAR SUPPORT EQUIPMENT	-		REVIEW
J.I. J0251 A PERFORM PMIS ON HELIX ANTENNAS (TRA 04060)	K	P	
J.I. K0301 A PERFORM PMIS ON UHF RECEIVE RF AMPLIFIERS(TRA 04060)	K	P	
J.I. L0402 A PERFORM PMIS ON UHF TRANSMITTERS(TRA 04060)	K	P	
J.I. G0153 A OBSERVE TEST EQUIPMENT, SUCH AS OSCILLOSCOPES, TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY (TRA 04610)	KP		
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 4900)	KP		
J.I. L0395 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON AIR COOLING SYSTEMS (TRA 04900)	KP		
J.I. Q0669 A PERFORM PMIS ON HIGH SPEED PRINTERS (TRA 04900)	KP		
J.I. Q0621 A ALIGN LOW SPEED PRINTERS (TRA 04920)	K	P	
J.I. M0447 A ALIGN FREQUENCY GENERATOR COMPONENTS (TRA 04920)	K	P	
TRA 04060 INSPECT AN/FRC-175 GROUND SATELLITE TERMINAL (J.I. J0251, K0301, AND L0402)	K	P	
TRA 04610 INSPECT AN/GSC-44 PECULIAR SUPPORT EQUIPMENT (J.I. G0153)	KP		
TRA 04900 INSPECT OM-7/U MONITOR SATELLITE SYSTEM GROUP (AAMS) (J.I. G0162, L0395, AND Q0669)	KP		
TRA 04920 ALIGN/ADJUST OM-70/U MONITOR SATELLITE SYSTEM GROUP (J.I. Q0621 AND M0447)	K	P	
13.D.(2) ALIGN LOW SPEED PRINTERS	2b		NONE
J.I. Q0621 A ALIGN LOW SPEED PRINTERS (TRA 04500 AND 04920)	K	P	
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04900)	KP		
J.I. L0395 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON AIR COOLING SYSTEMS (TRA 04900)	KP		
J.I. Q0669 A PERFORM PMIS ON HIGH SPEED PRINTERS (TRA 04900)	K	P	
J.I. M0447 A ALIGN FREQUENCY GENERATOR COMPONENTS (TRA 04920)	K	P	
TRA 04500 ALIGN/ADJUST AN/GSC-42 TELEPRINTER (J.I. Q0621)	K	P	
TRA 04900 INSPECT OM-7/U MONITOR SATELLITE SYSTEM GROUP (AAMS) (J.I. G0162, L0395, AND Q0669)	KP		
TRA 04920 ALIGN/ADJUST OM-70/U MONITOR SATELLITE SYSTEM GROUP (J.I. Q0621 AND M0447)	K	P	
13.D.(3) ACCOMPLISH CORROSION CONTROL	-		REVIEW
J.I. G0162 A PERFORM PREOPERATIONAL OR OPERATIONAL CHECKS OF EQUIPMENT (TRA 04900)	KP		
J.I. L0395 A PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON AIR COOLING SYSTEMS (TRA 04900)	KP		
J.I. Q0669 A PERFORM PMIS ON HIGH SPEED PRINTERS (TRA 04900)	KP		
J.I. Q0621 A ALIGN LOW SPEED PRINTERS (TRA 04920)	K	P	
J.I. M0447 A ALIGN FREQUENCY GENERATOR COMPONENTS (TRA 04920)	K	P	
TRA 04900 INSPECT OM-7/U MONITOR SATELLITE SYSTEM GROUP (AAMS) (J.I. G0162, L0395, AND Q0669)	KP		
TRA 04920 ALIGN/ADJUST OM-70/U MONITOR SATELLITE SYSTEM GROUP (J.I. Q0621 AND M0447)	K	P	
E. TROUBLESHOOTING			

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
13.E.(1) USE BUILT-IN TEST EQUIPMENT (BITE) TO ISOLATE MALFUNCTION TO THE LINE REPLACEABLE UNIT (LRU)	2b		NONE
J.I. J0238 K ISOLATE MALFUNCTIONS IN HELIX ANTENNAS (TRA 04070)	KP		
J.I. L0404 A REMOVE OR REPLACE ASR UNITS (TRA 04070XAND 04090)	KP		
J.I. L0418 A REMOVE OR REPLACE KLYSTRON AMPLIFIERS (TRA 04070)	KP		
J.I. I0218 A REMOVE OR REPLACE LINE REPLACEABLE UNITS (LRU) (TRA 04440)	KP		
J.I. L0337 K ISOLATE MALFUNCTIONS TO AUTOMATIC SEND/RECEIVE (ASR) UNITS (TRA 04490)	K	P	
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 04510)	KP		
J.I. O0541 A PERFORM LINK CHARACTERIZATION TESTS ON MODEMS (TRA (04510)	KP		
J.I. O0527 K ISOLATE MALFUNCTIONS TO DUAL MODEM CONTROLS (TRA 04520)	K	P	
J.I. N0508 K ISOLATE MALFUNCTIONS TO RECEIVER-TRANSMITTER (RT) SUBSYSTEMS (TRA 04530)	K	P	
J.I. N0512 K ISOLATE MALFUNCTIONS WITHIN RT SUBSYSTEMS (TRA 04530)	K	P	
J.I. K0277 A ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RADIO FREQUENCY (RF) AMPLIFIER COMPONENTS (TRA 04540)	K	P	
J.I. Q0634 K ISOLATE MALFUNCTIONS IN GENERAL PURPOSE POWER SUPPLIES (TRA 04550)	K	P	
J.I. K0290 K ISOLATE MALFUNCTIONS IN UHF RECEIVE RF AMPLIFIERS (04590)	K	P	
J.I. Q0645 K ISOLATE MALFUNCTIONS IN SATELLITE SYSTEMS USING RF TO RF TEST TRANSLATORS (04590)	K	P	
J.I. I0218 A REMOVE OR REPLACE LINE REPLACEABLE UNITS (LRU) (TRA 04910)	KP		
J.I. L0325 K ISOLATE MALFUNCTIONS IN CENTRAL PROCESSING UNITS (CPU) (TRA 04910)	KP		
J.I. Q0629 K ISOLATE MALFUNCTIONS IN BITE (TRA 04910)	KP		
J.I. K0292 K ISOLATE MALFUNCTIONS TO EMERGENCY ACTION MESSAGE (EAM) ALARMS (TRA 04960)	K	P	
J.I. L0337 K ISOLATE MALFUNCTIONS TO AUTOMATIC SEND/RECEIVE (ASR) UNITS (TRA 04490)	K	P	
J.I. Q0655 K ISOLATE MALFUNCTIONS TO HIGH SPEED PRINTERS (TRA 04960)	K	P	
TRA 04070 TROUBLESHOOT AN/FRC-175 GROUND SATELLITE TERMINAL (J.I. J0238, L0404, L0418)	KP		
TRA 04440 TROUBLESHOOT AN/GSC-42 AIR FORCE SATELLITE COMMUNICATION (AFSATCOM) TERMINAL (J.I. I0218 AND L0404)	KP		
TRA 04490 TROUBLESHOOT AN/GSC-42 TELEPRINTER (J.I. L0337)	K	P	
TRA 04510 TROUBLESHOOT AN/GSC-42 TELEGRAPH MODEM (J.I. O0539 AND O0541)	KP		
TRA 04520 TROUBLESHOOT AN/GSC-42 MEMORY UNIT (J.I. O0527)	K	P	
TRA 04530 TROUBLESHOOT AN/GSC-42 RADIO RECEIVER-TRANSMITTER (J.I. N0508 AND N0512)	K	P	
TRA 04540 ALIGN/ADJUST AN/GSC-42 RADIO RECEIVER/TRANSMITTER (J.I. K0277)	K	P	
TRA 04550 TROUBLESHOOT AN/GSC-42 VOLTAGE POWER SUPPLY (J.I. Q0634)	K	P	
TRA 04590 TROUBLESHOOT AN/GSC-44 CONSOLIDATED GROUND TERMINAL (J.I. K0290 AND Q0645)	K	P	
TRA 04910 TROUBLESHOOT OM70/U MONITOR SATELLITE SYSTEM GROUP (AAMS) (J.I. I0218, L0325, Q0629)	KP		
TRA 04960 TROUBLESHOOT AN/TSC-88 COMMUNICATION TERMINAL (AFSATCOM) (J.I. K0292, L0337, Q0655)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
13.E.(2) REPLACE FAULTY LRU	2b		NONE
J.I. J0238 K ISOLATE MALFUNCTIONS IN HELIX ANTENNAS (TRA 04070)	KP		
J.I. L0404 A REMOVE OR REPLACE ASR UNITS (TRA 04070XAND 04090)	KP		
J.I. L0418 A REMOVE OR REPLACE KLYSTRON AMPLIFIERS (TRA 04070)	KP		
J.I. L0337 K ISOLATE MALFUNCTIONS TO AUTOMATIC SEND/RECEIVE (ASR) UNITS (TRA 04490)	K	P	
J.I. K0277 A ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RADIO FREQUENCY (RF) AMPLIFIER COMPONENTS (TRA 04540)	K	P	
TRA 04070 TROUBLESHOOT AN/FRC-175 GROUND SATELLITE TERMINAL (J.I. J0238, L0404, L0418)	KP		
TRA 04490 TROUBLESHOOT AN/GSC-42 TELEPRINTER (J.I. L0337)	K	P	
TRA 04540 ALIGN/ADJUST AN/GSC-42 RADIO RECEIVER/TRANSMITTER (J.I. K0277)	K	P	
13.E.(3) ISOLATE MALFUNCTION WITHIN LRU TO THE SHOP REPLACEABLE UNIT (SRU)	-		REVIEW
J.I. J0238 K ISOLATE MALFUNCTIONS IN HELIX ANTENNAS (TRA 04070)	KP		
J.I. L0404 A REMOVE OR REPLACE ASR UNITS (TRA 04070)	KP		
J.I. L0418 A REMOVE OR REPLACE KLYSTRON AMPLIFIERS (TRA 04070)	KP		
J.I. L0337 K ISOLATE MALFUNCTIONS TO AUTOMATIC SEND/RECEIVE (ASR) UNITS (TRA 04490)	K	P	
J.I. K0277 A ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RADIO FREQUENCY (RF) AMPLIFIER COMPONENTS (TRA 04540)	K	P	
TRA 04070 TROUBLESHOOT AN/FRC-175 GROUND SATELLITE TERMINAL (J.I. J0238, L0404, L0418)	KP		
TRA 04490 TROUBLESHOOT AN/GSC-42 TELEPRINTER (J.I. L0337)	K	P	
TRA 04540 ALIGN/ADJUST AN/GSC-42 RADIO RECEIVER/TRANSMITTER (J.I. K0277)	K	P	
13.E.(4) REPLACE FAULTY SRU	-		REVIEW
J.I. J0238 K ISOLATE MALFUNCTIONS IN HELIX ANTENNAS (TRA 04070)	KP		
J.I. L0404 A REMOVE OR REPLACE ASR UNITS (TRA 04070)	KP		
J.I. L0418 A REMOVE OR REPLACE KLYSTRON AMPLIFIERS (TRA 04070)	KP		
J.I. L0337 K ISOLATE MALFUNCTIONS TO AUTOMATIC SEND/RECEIVE (ASR) UNITS (TRA 04490)	K	P	
J.I. K0277 A ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RADIO FREQUENCY (RF) AMPLIFIER COMPONENTS (TRA 04540)	K	P	
TRA 04070 TROUBLESHOOT AN/FRC-175 GROUND SATELLITE TERMINAL (J.I. J0238, L0404, L0418)	KP		
TRA 04490 TROUBLESHOOT AN/GSC-42 TELEPRINTER (J.I. L0337)	K	P	
TRA 04540 ALIGN/ADJUST AN/GSC-42 RADIO RECEIVER/TRANSMITTER (J.I. K0277)	K	P	
13.E.(5) PERFORM OPERATIONAL TEST ON REPAIRED LRU	-		REVIEW
J.I. J0238 K ISOLATE MALFUNCTIONS IN HELIX ANTENNAS (TRA 04070)	KP		
J.I. L0404 A REMOVE OR REPLACE ASR UNITS (TRA 04070)	KP		
J.I. L0418 A REMOVE OR REPLACE KLYSTRON AMPLIFIERS (TRA 04070)	KP		
J.I. L0337 K ISOLATE MALFUNCTIONS TO AUTOMATIC SEND/RECEIVE (ASR) UNITS (TRA 04490)	K	P	
J.I. K0277 A ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RADIO FREQUENCY (RF) AMPLIFIER COMPONENTS (TRA 04540)	K	P	
TRA 04070 TROUBLESHOOT AN/FRC-175 GROUND SATELLITE TERMINAL (J.I. J0238, L0404, L0418)	KP		
TRA 04490 TROUBLESHOOT AN/GSC-42 TELEPRINTER (J.I. L0337)	K	P	
TRA 04540 ALIGN/ADJUST AN/GSC-42 RADIO RECEIVER/TRANSMITTER (J.I. K0277)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
14. GROUND MOBILE FORCES (GMF)			
A. SYSTEM PRINCIPLES			
(1) COMMUNICATION SUBSYSTEMS (CSS)			
(A) LINE CONDITIONING EQUIPMENT	-		
(B) MULTIPLEXERS	B		
(C) LEVEL CONVERSION EQUIPMENT	B		
(D) VOICE AND DATA PATCH PANELS	B		
(E) MODEMS			
((1)) GROUP MODEM	B		
((2)) QPSK AND BPSK MODEMS	B		
((3)) AJ MODEMS (NODAL AND NON-NODAL)	A		
(F) ORDERWIRE EQUIPMENT	B		
(2) RADIO SUBSYSTEM (RSS)			
(A) UPCONVERTERS	B		
(B) AMPLIFIER MIXER	B		
(C) IF/RF PATCH PANELS	B		
(D) HIGH POWER AMPLIFIERS (HPA)	B		
(E) HIGH VOLTAGE POWER SUPPLIES (HVPS)	B		
(F) ANTENNA MOUNTED ELECTRONICS (AME)	B		
(G) DOWNCONVERTER	B		
(H) ANTENNA CONTROL EQUIPMENT	B		
(I) ANTENNA DRIVE EQUIPMENT	B		
(J) CONTROL AND MONITORING EQUIPMENT	A		
(K) POWER CONVERTER	A		
B. OPERATONS			
(1) DEPLOYMENT AND RECOVERY			
(A) PREPARE SYSTEM FOR TRANSPORT			
14.B.(1)(A) 1. AIR TRANSPORT	A		REVIEW
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. 00539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
J.I. Q0681 A REMOVE OR REPLACE CRYPTO EQUIPMENT (TRA 05060)	K	P	
J.I. R0708 A INSTALL OR REMOVE CABLING BETWEEN SITE VANS (TRA 05060) AND 05110)	K	P	
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 05110)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 05110)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND 00539)	KP		
TRA 05060 SET-UP OR TEAR DOWN AN/TSC-94A(V2) SATELLITE COMMUNICATIONS TERMINAL (J.I. Q0681 AND R0708)	K	P	
TRA 05110 SET-UP OR TEAR DOWN AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. R0708, R0713, AND R0711)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
14.B.(1)(A) 2. GROUND TRANSPORT	A		REVIEW
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
J.I. Q0681 A REMOVE OR REPLACE CRYPTO EQUIPMENT (TRA 05060)	K	P	
J.I. R0708 A INSTALL OR REMOVE CABLING BETWEEN SITE VANS (TRA 5060 AND 05110)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 05110)	K	P	
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 05110)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05060 SET-UP OR TEAR DOWN AN/TSC-94A(V2) SATELLITE COMMUNICATIONS TERMINAL (J.I. Q0681 AND R0708)	K	P	
TRA 05110 SET-UP OR TEAR DOWN AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. R0708, R0711, AND R0713)	K	P	
14.B.(1)(B) PREPARE MOBILITY SITE FOR INSTALLATION	A		REVIEW
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. R0708 A INSTALL OR REMOVE CABLING BETWEEN SITE VANS (TRA 05110)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 05110)	K	P	
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 05110)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05110 SET-UP OR TEAR DOWN AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. R0708, R0711, AND R0713)	K	P	
14.B.(1)(C) INSTALL MOBILE COMMUNICATION SHELTER	A		REVIEW
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
J.I. 00539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. R0708 A INSTALL OR REMOVE CABLING BETWEEN SITE VANS (TRA 05110)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 05110)	K	P	
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 05110)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND 00539)	KP		
TRA 05110 SET-UP OR TEAR DOWN AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. R0708, R0711, AND R0713)	K	P	
14.B(1)(D) REMOVE MOBILE COMMUNICATION SHELTER	A		REVIEW
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. 00539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. R0708 A INSTALL OR REMOVE CABLING BETWEEN SITE VANS (TRA 05110)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 05110)	K	P	
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 05110)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND 00539)	KP		
TRA 05110 SET-UP OR TEAR DOWN AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. R0708, R0713, R0711)	K	P	
14.B.(1)(E) LOCATE ANTENNA SIGHTING POINTS	A		REVIEW
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. 00539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
J.I. R0708 A INSTALL OR REMOVE CABLING BETWEEN SITE VANS (TRA 05110)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 05110)	K	P	
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 05110)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND 00539)	KP		
TRA 05110 SET-UP OR TEAR DOWN AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. R0708, R0713, R0711)	K	P	
(F) SETUP AND PACK ANTENNA SYSTEM			
14.B.(1)(F) 1. SMALL ANTENNA	A		REVIEW

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
J.I. R0708 A INSTALL OR REMOVE CABLING BETWFEN SITE VANS (TRA 05110)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 05110)	K	P	
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 05110)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05110 SET-UP OR TEAR DOWN AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. R0708, R0711, AND R0713))	K	P	
14.B.(1)(F) 2. LARGE ANTENNA	-		REVIEW
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
J.I. R0708 A INSTALL OR REMOVE CABLING BETWEEN SITE VANS (TRA 05110)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 05110)	K	P	
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 05110)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05110 SET-UP OR TEAR DOWN AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. R0708, R0711, AND R0713))	K	P	
14.B.(1)(F) 3. QUICK REACTION ANTENNA	A		REVIEW
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
J.I. R0708 A INSTALL OR REMOVE CABLING BETWEEN SITE VANS (TRA 05110)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 05110)	K	P	
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 05110)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05110 SET-UP OR TEAR DOWN AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. R0708, R0711, AND R0713))	K	P	
14.B.(1)(G) INSTALL AND REMOVE POWER GENERATION EQUIPMENT	-		REVIEW

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
J.I. R0708 A INSTALL OR REMOVE CABLING BETWEEN SITE VANS (TRA 05110)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 05110)	K	P	
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 05110)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05110 SET-UP OR TEAR DOWN AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. R0708, R0711, AND R0713))	K	P	
14.B.(1)(H) GROUND SHELTER AND ANTENNAS	A		REVIEW
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
J.I. R0708 A INSTALL OR REMOVE CABLING BETWEEN SITE VANS (TRA 05110)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 05110)	K	P	
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 05110)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05110 SET-UP OR TEAR DOWN AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. R0708, R0711, AND R0713))	K	P	
14.B.(1)(I) INSTALL AND REMOVE SITE CABLING	-		REVIEW
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
J.I. R0708 A INSTALL OR REMOVE CABLING BETWEEN SITE VANS (TRA 05110)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 05110)	K	P	
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 05110)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05110 SET-UP OR TEAR DOWN AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. R0708, R0711, AND R0713))	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
14.B.(1)(J) ANCHOR SHELTER AND ANTENNAS	-		REVIEW
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
J.I. R0708 A INSTALL OR REMOVE CABLING BETWEEN SITE VANS (TRA 05110)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 05110)	K	P	
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 05110)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05110 SET-UP OR TEAR DOWN AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. R0708, R0711, AND R0713))	K	P	
14.B.(1)(K) CAMOUFLAGE EQUIPMENT	-		REVIEW
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
J.I. R0708 A INSTALL OR REMOVE CABLING BETWEEN SITE VANS (TRA 05110)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 05110)	K	P	
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 05110)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05110 SET-UP OR TEAR DOWN AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. R0708, R0711, AND R0713))	K	P	
14.B.(2) PERFORM TURN-ON AND TURN-OFF PROCEDURES OF EQUIPMENT	2b		NONE
J.I. R0711 A INSTALL OR REMOVE POWER GENERATING EQUIPMENT (TRA 04740)	K	P	
J.I. R0713 A INSTALL OR REMOVE TRACKING ANTENNA GROUPS (TRA 04740)	K	P	
J.I. R0716 A PREPARE MOBILITY SITE FOR INSTALLATION (TRA 04740)	K	P	
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040 AND 05100)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040 AND 05100)	KP		
J.I. G0163 A PERFORM RECEIVE LINK GAIN CHECKS (TRA 05100)	KP		
TRA 04740 SET-UP AN/GSC-49 SINGLE CARRIER FEED DE-361(V) ANTENNA (J.I. R0711, R0713, AND R0716)	K	P	
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05100 PERFORM OPERATION CHECK OF AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0163, G0165, AND O0539)	KP		
14.B.(3) CONFIGURE MULTIPLEXING EQUIPMENT	2b		NONE
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040 AND 05100)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040 AND 05100)	KP		
J.I. G0163 A PERFORM RECEIVE LINK GAIN CHECKS (TRA 05100)	KP		
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05100 PERFORM OPERATION CHECK OF AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0163, G0165, AND O0539)	KP		
14.B.(4) CONFIGURE CRYPTO EQUIPMENT FOR OPERATIONS	2b		NONE
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040 AND 05110)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040 AND 05100)	KP		
J.I. G0163 A PERFORM RECEIVE LINK GAIN CHECKS (TRA 05100)	KP		
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05100 PERFORM OPERATION CHECK OF AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0163, G0165, AND O0539)	KP		
14.B.(5) CONFIGURE VOICE AND DATA PATCH PANELS	2b		NONE
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040 AND 05100)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040 AND 05100)	KP		
J.I. G0163 A PERFORM RECEIVE LINK GAIN CHECKS (TRA 05100)	KP		
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05100 PERFORM OPERATION CHECK OF AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0163, G0165, AND O0539)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
14.B.(6) CONFIGURE MODEMS	2b		NONE
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040 AND 05100)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040 AND 05100)	KP		
J.I. G0163 A PERFORM RECEIVE LINK GAIN CHECKS (TRA 05100)	KP		
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05100 PERFORM OPERATION CHECK OF AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0163, G0165, AND O0539)	KP		
14.B.(7) CONFIGURE IF AND RF PATCH PANELS	2b		NONE
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040 AND 05100)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040 AND 05100)	KP		
J.I. G0163 A PERFORM RECEIVE LINK GAIN CHECKS (TRA 05100)	KP		
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05100 PERFORM OPERATION CHECK OF AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0163, G0165, AND O0539)	KP		
14.B.(8) CONFIGURE FREQUENCY CONVERSION EQUIPMENT	2b		NONE
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040 AND 05100)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040 AND 05100)	KP		
J.I. G0163 A PERFORM RECEIVE LINK GAIN CHECKS (TRA 05100)	KP		
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05100 PERFORM OPERATION CHECK OF AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0163, G0165, AND O0539)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
14.B.(9) CONFIGURE RF EQUIPMENT	2b		NONE
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040 AND 05100)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040 AND 05100)	KP		
J.I. G0163 A PERFORM RECEIVE LINK GAIN CHECKS (TRA 05100)	KP		
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05100 PERFORM OPERATION CHECK OF AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0163, G0165, AND O0539)	KP		
14.B.(10) PERFORM ACQUISITION AND TRACKING OF SATELLITE	2b		NONE
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040 AND 05110)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040 AND 05100)	KP		
J.I. G0163 A PERFORM RECEIVE LINK GAIN CHECKS (TRA 05100)	KP		
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05100 PERFORM OPERATION CHECK OF AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0163, G0165, AND O0539) TERMINAL (J.I. R0708, R0711, AND R0713))	KP		
14.B.(11) ESTABLISH COMMUNICATION LINK	2b		NONE
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040 AND 05100)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040 AND 05100)	KP		
J.I. G0163 A PERFORM RECEIVE LINK GAIN CHECKS (TRA 05100)	KP		
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05100 PERFORM OPERATION CHECK OF AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0163, G0165, AND O0539)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
14.B.(12) MAINTAIN STATION LOGS	2b		NONE
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040 AND 05100)	KP		
J.I. 00539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040 AND 05100)	KP		
J.I. G0163 A PERFORM RECEIVE LINK GAIN CHECKS (TRA 05100)	KP		
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND 00539)	KP		
TRA 05100 PERFORM OPERATION CHECK OF AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0163, G0165, AND 00539)	KP		
14.B.(13) PERFORM EMERGENCY SHUT-OFF PROCEDURES	2b		NONE
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040 AND 05110)	KP		
J.I. 00539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040 AND 05100)	KP		
J.I. G0163 A PERFORM RECEIVE LINK GAIN CHECKS (TRA 05100)	KP		
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND 00539)	KP		
TRA 05100 PERFORM OPERATION CHECK OF AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0163, G0165, AND 00539)	KP		
(14) OPERATE POWER EQUIPMENT			
14.B.(14)(A) GENERATORS	-		REVIEW
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040 AND 05110)	KP		
J.I. 00539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040 AND 05100)	KP		
J.I. G0163 A PERFORM RECEIVE LINK GAIN CHECKS (TRA 05100)	KP		
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND 00539)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 05100 PERFORM OPERATION CHECK OF AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0163, G0165, AND O0539)	KP		
14.B.(14)(B) POWER CONVERTERS	-		REVIEW
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040 AND 05110)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040 AND 05100)	KP		
J.I. G0163 A PERFORM RECEIVE LINK GAIN CHECKS (TRA 05100)	KP		
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
TRA 05100 PERFORM OPERATION CHECK OF AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0163, G0165, AND O0539)	KP		
14.B.(15) OPERATE AJ MODEMS	2b		NONE
J.I. H0175 A CONFIGURE TERMINAL EQUIPMENT FOR CORRECT SATELLITE MODE (TRA 04750)	KP		
J.I. H0183 A PERFORM ACQUISITION FUNCTIONS (TRA 04750)	KP		
J.I. H0187 A REVIEW MISSION DATA FOR PREMISSION SETUPS (TRA 04750)	KP		
J.I. G0156 A PERFORM CARRIER NOISE DENSITY CHECKS (C/KT) (TRA 05040)	KP		
J.I. G0165 A PERFORM TURN-ON OR TURN-OFF PROCEDURES OF EARTH TERMINALS (TRA 05040)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05040)	KP		
TRA 04750 INITIAL SET-UP OF AN/GSC-49 SATELLITE COMMUNICATIONS TERMINAL (J.I. H0175, H0183, AND H0187)	KP		
TRA 05040 PERFORM OPERATION CHECK OF AN/TSC-94 SATELLITE COMMUNICATIONS TERMINAL (J.I. G0156, G0165, AND O0539)	KP		
C. MAINTENANCE			
(1) PERFORM SCHEDULED PREVENTIVE MAINTENANCE			
14.C.(1)(A) CSS EQUIPMENT	-		REVIEW
J.I. I0205 A PERFORM DAILY OR WEEKLY METER READINGS (TRA 4760)		KP	
J.I. O0540 A PERFORM IN-HOUSE MODEM CHARACTERIZATIONS (TRA 04790)	K	P	
J.I. O0541 A PERFORM LINK CHARACTERIZATION TESTS ON MODEMS (TRA (04790)	K	P	
J.I. L0403 A PERFORM PMIS ON UP CONVERTERS (TRA 05020)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05020)	KP		
J.I. Q0604 A PERFORM PMIS ON CESIUM BEAM FREQUENCY STANDARDS (TRA 05050)	K	P	
J.I. K0277 A ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RADIO FREQUENCY (RF) AMPLIFIER COMPONENTS (TRA 05050)	K	P	
J.I. P0562 A ALIGN TRACKING DOWN CONVERTER COMPONENTS (TRA 05050)	K	P	
J.I. J0253 A PERFORM PMIS ON PARABOLIC ANTENNAS (TRA 05070)	KP		
J.I. L0403 A PERFORM PMIS ON UP CONVERTERS (TRA 05070)	KP		
J.I. K0276 A ADJUST DOWN CONVERTERS TO SPECIFIC CARRIER FREQUENCIES (TRA 05090)	K	P	
J.I. M0457 A ALIGN TIME DIVISION MULTIPLEXERS (TRA 05090)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
TRA 04760 INSPECT AN/GSC ENCODER/DECODER (J.I. I0205)		KP	
TRA 04790 INSPECT AN/GSC MODEM DIGITAL DATA (J.I. O0540 AND O0541)	K	P	
TRA 05020 INSPECT AN/TSC-94A SATELLITE COMMUNICATIONS TERMINAL (J.I. L0403 AND O0539)	KP		
TRA 05050 ALIGN/ADJUST AN/TSC-94A SATELLITE COMMUNICATIONS TERMINAL (J.I. Q0604, J0276, AND P0562)	K	P	
TRA 05070 INSPECT AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. J0253 AND L0403)	KP		
TRA 05090 ALIGN/ADJUST AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. K0276 AND M0457)	K	P	
14.C.(1)(B) RSS EQUIPMENT	-		REVIEW
J.I. L0403 A PERFORM PMIS ON UP CONVERTERS (TRA 05020)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05020)	KP		
J.I. Q0604 A PERFORM PMIS ON CESIUM BEAM FREQUENCY STANDARDS (TRA 05050)	K	P	
J.I. K0277 A ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RADIO FREQUENCY (RF) AMPLIFIER COMPONENTS (TRA 05050)	K	P	
J.I. P0562 A ALIGN TRACKING DOWN CONVERTER COMPONENTS (TRA 05050)	K	P	
J.I. J0253 A PERFORM PMIS ON PARABOLIC ANTENNAS (TRA 05070)	KP		
J.I. L0403 A PERFORM PMIS ON UP CONVERTERS (TRA 05070)	KP		
J.I. K0276 A ADJUST DOWN CONVERTERS TO SPECIFIC CARRIER FREQUENCIES (TRA 05090)	K	P	
J.I. M0457 A ALIGN TIME DIVISION MULTIPLEXERS (TRA 05090)	K	P	
TRA 05020 INSPECT AN/TSC-94A SATELLITE COMMUNICATIONS TERMINAL (J.I. L0403 AND O0539)	KP		
TRA 05050 ALIGN/ADJUST AN/TSC-94A SATELLITE COMMUNICATIONS TERMINAL (J.I. Q0604, J0276, AND P0562)	K	P	
TRA 05070 INSPECT AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. J0253 AND L0403)	KP		
TRA 05090 ALIGN/ADJUST AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. K0276 AND M0457)	K	P	
14.C.(2) ALIGN CSS EQUIPMENT	2b		NONE
J.I. L0403 A PERFORM PMIS ON UP CONVERTERS (TRA 05020)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05020)	KP		
J.I. Q0604 A PERFORM PMIS ON CESIUM BEAM FREQUENCY STANDARDS (TRA 05050)	K	P	
J.I. K0277 A ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RADIO FREQUENCY (RF) AMPLIFIER COMPONENTS (TRA 05050)	K	P	
J.I. P0562 A ALIGN TRACKING DOWN CONVERTER COMPONENTS (TRA 05050)	K	P	
J.I. J0253 A PERFORM PMIS ON PARABOLIC ANTENNAS (TRA 05070)	KP		
J.I. L0403 A PERFORM PMIS ON UP CONVERTERS (TRA 05070)	KP		
J.I. K0276 A ADJUST DOWN CONVERTERS TO SPECIFIC CARRIER FREQUENCIES (TRA 05090)	K	P	
J.I. M0457 A ALIGN TIME DIVISION MULTIPLEXERS (TRA 05090)	K	P	
TRA 05020 INSPECT AN/TSC-94A SATELLITE COMMUNICATIONS TERMINAL (J.I. L0403 AND O0539)	KP		
TRA 05050 ALIGN/ADJUST AN/TSC-94A SATELLITE COMMUNICATIONS TERMINAL (J.I. Q0604, J0276, AND P0562)	K	P	
TRA 05070 INSPECT AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. J0253 AND L0403)	KP		
TRA 05090 ALIGN/ADJUST AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. K0276 AND M0457)	K	P	

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
14.C.(3) ALIGN RSS EQUIPMENT	2b		NONE
J.I. Q0665 A PERFORM PMIS ON CRYPTO EQUIPMENT (TRA 04780)		KP	
J.I. O0522 A ALIGN QUADRAPHASE SHIFT KEYING (QPSK) MODEM COMPONENTS (TRA 04810)	K	P	
J.I. Q0608 A ALIGN ANALOG-TO-DIGITAL CONVERTER COMPONENTS (TRA 04810)	K	P	
J.I. L0403 A PERFORM PMIS ON UP CONVERTERS (TRA 05020)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05020)	KP		
J.I. K0277 A ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RADIO FREQUENCY (RF) AMPLIFIER COMPONENTS (TRA 05050)	K	P	
J.I. Q0604 A PERFORM PMIS ON CESIUM BEAM FREQUENCY STANDARDS (TRA 05050)	K	P	
J.I. P0562 A ALIGN TRACKING DOWN CONVERTER COMPONENTS (TRA 05050)	K	P	
J.I. J0253 A PERFORM PMIS ON PARABOLIC ANTENNAS (TRA 05070)	KP		
J.I. L0403 A PERFORM PMIS ON UP CONVERTERS (TRA 05070)	KP		
J.I. M0457 A ALIGN TIME DIVISION MULTIPLEXERS (TRA 05090)	K	P	
J.I. K0276 A ADJUST DOWN CONVERTERS TO SPECIFIC CARRIER FREQUENCIES (TRA 05090)	K	P	
TRA 04780 ALIGN/ADJUST KY-801/GSC ENCODER/DECODER (J.I. Q0665)		KP	
TRA 04810 ALIGN/ADJUST MD-1002 MODEM DIGITAL DATA (J.I. Q0522 AND Q0608)	K	P	
TRA 05020 INSPECT AN/TSC-94A SATELLITE COMMUNICATIONS TERMINAL (J.I. L0403 AND O0539)	KP		
TRA 05050 ALIGN/ADJUST AN/TSC-94A SATELLITE COMMUNICATIONS TERMINAL (J.I. Q0604, J0276, AND P0562)	K	P	
TRA 05070 INSPECT AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. J0253 AND L0403)	KP		
TRA 05090 ALIGN/ADJUST AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. K0276 AND M0457)	K	P	
14.C.(4) ALIGN ANTENNA MOUNTED ELECTRONICS	2b		NONE
J.I. L0403 A PERFORM PMIS ON UP CONVERTERS (TRA 05020)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05020)	KP		
J.I. Q0604 A PERFORM PMIS ON CESIUM BEAM FREQUENCY STANDARDS (TRA 05050)	K	P	
J.I. K0277 A ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RADIO FREQUENCY (RF) AMPLIFIER COMPONENTS (TRA 05050)	K	P	
J.I. P0562 A ALIGN TRACKING DOWN CONVERTER COMPONENTS (TRA 05050)	K	P	
J.I. J0253 A PERFORM PMIS ON PARABOLIC ANTENNAS (TRA 05070)	KP		
J.I. L0403 A PERFORM PMIS ON UP CONVERTERS (TRA 05070)	KP		
J.I. K0276 A ADJUST DOWN CONVERTERS TO SPECIFIC CARRIER FREQUENCIES (TRA 05090)	K	P	
J.I. M0457 A ALIGN TIME DIVISION MULTIPLEXERS (TRA 05090)	K	P	
TRA 05020 INSPECT AN/TSC-94A SATELLITE COMMUNICATIONS TERMINAL (J.I. L0403 AND O0539)	KP		
TRA 05050 ALIGN/ADJUST AN/TSC-94A SATELLITE COMMUNICATIONS TERMINAL (J.I. Q0604, J0276, AND P0562)	K	P	
TRA 05070 INSPECT AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. J0253 AND L0403)	KP		
TRA 05090 ALIGN/ADJUST AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. K0276 AND M0457)	K	P	
14.C.(5) ACCOMPLISH CORROSION CONTROL	-		REVIEW
J.I. L0403 A PERFORM PMIS ON UP CONVERTERS (TRA 05020)	KP		
J.I. O0539 A PERFORM BIT ERROR RATE TESTS ON MODEMS (TRA 05020)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
J.I. Q0604 A PERFORM PMIS ON CESIUM BEAM FREQUENCY STANDARDS (TRA 05050)	K	P	
J.I. K0277 A ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RADIO FREQUENCY (RF) AMPLIFIER COMPONENTS (TRA 05050)	K	P	
J.I. P0562 A ALIGN TRACKING DOWN CONVERTER COMPONENTS (TRA 05050)	K	P	
J.I. J0253 A PERFORM PMIS ON PARABOLIC ANTENNAS (TRA 05070)	KP		
J.I. L0403 A PERFORM PMIS ON UP CONVERTERS (TRA 05070)	KP		
J.I. K0276 A ADJUST DOWN CONVERTERS TO SPECIFIC CARRIER FREQUENCIES (TRA 05090)	K	P	
J.I. M0457 A ALIGN TIME DIVISION MULTIPLEXERS (TRA 05090)	K	P	
TRA 05020 INSPECT AN/TSC-94A SATELLITE COMMUNICATIONS TERMINAL (J.I. L0403 AND 00539)	KP		
TRA 05050 ALIGN/ADJUST AN/TSC-94A SATELLITE COMMUNICATIONS TERMINAL (J.I. Q0604, J0276, AND P0562)	K	P	
TRA 05070 INSPECT AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. J0253 AND L0403)	KP		
TRA 05090 ALIGN/ADJUST AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. K0276 AND M0457)	K	P	
D. TROUBLESHOOTING			
14.D.(1) ISOLATE TO FAULTY EQUIPMENT AND SWITCH TO STANDBY EQUIPMENT	2b		NONE
J.I. J0228 K ISOLATE MALFUNCTIONS IN ANTENNA CONTROLS (TRA 05030)	KP		
J.I. K0285 K ISOLATE MALFUNCTIONS IN DOWN CONVERTERS (TRA 05030 AND 05080)	KP		
J.I. Q0642 K ISOLATE MALFUNCTIONS IN POWER DISTRIBUTION PANELS (TRA 05030)	KP		
J.I. Q0629 K ISOLATE MALFUNCTIONS IN BITE (TRA 05080)	KP		
J.I. Q0640 K ISOLATE MALFUNCTIONS IN PATCH PANELS (TRA 05080)	KP		
TRA 05030 TROUBLESHOOT AN/TSC-94A SATELLITE COMMUNICATIONS TERMINAL (J.I. J0228, K0285, AND Q0642)	KP		
TRA 05080 TROUBLESHOOT AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. K0285, Q0629, AND Q0640)	KP		
14.D.(2) TROUBLESHOOT FAULTY EQUIPMENT TO ISOLATE MALFUNCTIONS TO SPECIFIC MODULE OR CIRCUIT CARD	2b		NONE
J.I. Q0629 K ISOLATE MALFUNCTIONS IN BITE (TRA 04770)		KP	
J.I. 00532 K ISOLATE MALFUNCTIONS TO QPSK MODEMS (TRA 04800)	K	P	
J.I. J0228 K ISOLATE MALFUNCTIONS IN ANTENNA CONTROLS (TRA 05030)	KP		
J.I. K0285 K ISOLATE MALFUNCTIONS IN DOWN CONVERTERS (TRA 05030 AND 05080)	KP		
J.I. Q0642 K ISOLATE MALFUNCTIONS IN POWER DISTRIBUTION PANELS (TRA 05030)	KP		
J.I. Q0629 K ISOLATE MALFUNCTIONS IN BITE (TRA 05080)	KP		
J.I. Q0640 K ISOLATE MALFUNCTIONS IN PATCH PANELS (TRA 05080)	KP		
TRA 04770 TROUBLESHOOT KY-801/GSC ENCODER DECODER (J.I. Q0629)		KP	
TRA 04800 TROUBLESHOOT MD-1002 MODEM DIGITAL DATA (J.I. 00532)	.	P	
TRA 05030 TROUBLESHOOT AN/TSC-94A SATELLITE COMMUNICATIONS TERMINAL (J.I. J0228, K0285, AND Q0642)	KP		
TRA 05080 TROUBLESHOOT AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. K0285, Q0629, AND Q0640)	KP		

SPECIALTY TRAINING STANDARD (STS) AFSC 304X6	3 LEVEL CRSE	3 LEVEL OJT	STS ACTION
14.D.(3) REPLACE FAULTY MODULE OR CIRCUIT	2b		NONE
J.I. J0228 K ISOLATE MALFUNCTIONS IN ANTENNA CONTROLS (TRA 05030)	KP		
J I. K0285 K ISOLATE MALFUNCTIONS IN DOWN CONVERTERS (TRA 05030 AND 05080)	KP		
J.I. Q0642 K ISOLATE MALFUNCTIONS IN POWER DISTRIBUTION PANELS (TRA 05030)	KP		
J.I. Q0629 K ISOLATE MALFUNCTIONS IN BITE (TRA 05080)	KP		
J.I. Q0640 K ISOLATE MALFUNCTIONS IN PATCH PANELS (TRA 05080)	KP		
TRA 05030 TROUBLESHOOT AN/TSC-94A SATFLLITE COMMUICATIONS TERMINAL (J.I. J0228, K0285, AND Q0642)	KP		
TRA 05080 TROUBLESHOOT AN/TSC-100 SATELLITE COMMUNICATIONS TERMINAL (J.I. K0285, Q0629, AND Q0640)	KP		